DOCUMENT RESUME

ED 052 750 24 HE 002 434

AUTHOR Gulko, Warren W.

TITLE Program Classification Structure. Preliminary

Edition for Review. WICHE Management Information

Systems Program.

INSTITUTION Western Interstate Commission for Higher Education,

Boulder, Colo.

REPORT NO TR-13
BUREAU NO BR-8-0708
PUB DATE Jun 70

CONTRACT OEC-0-8-980708-4533 (010)

NOTE 166p.

AVAILABLE FROM Western Interstate Commission for Higher Education,

P.O. Drawer P., Boulder, Colorado 80302

EDRS PRICE EDRS Price MF-\$0.65 HC-\$6.58

DESCRIPTORS Classification, Higher Education, *Information

Systems, *Management Systems, Program Development,

*Resource Allocations, *Systems Development,

*Taxonom v

IDENTIFIERS WICHE Management Information Systems, *WICHE MIS

ABSTRACT

The primary mission of the WICHE Management Informations Systems Program is to help colleges and universities develop improved management systems and methods of resource allocation. A related aim is to develop procedures which facilitate exchange of comparable data among institutions. A necessary part of such exchanges will be a standard taxonomy or uniform classification system which identifies and categorizes activities and programs of institutions. Together with the WICHE MIS Data Element Dictionaries, the Program Classification Structure provides the basis for developing a common language. Section I discusses the Structure's rationale and relation to various analytical methods. Section II defines the Structure's levels and proposed coding scheme. Sections III and IV provide a detailed description and listing of proposed programs. "This preliminary edition is published and distributed in order to solicit comments and criticism from the entire higher education community. (JS)



BR-8-0708 PA-24

PROGRAM CLASSIFICATION STRUCTURE

- Preliminary Edition for Review

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.



Planning and Management Systems Division
Western Interstate Commission for Higher Education



ED052750



Executive Director: WICHE Robert H. Kroepsch

Associate Director, WICHE, and Director, Planning and Management Systems Division: Ben Lawrence

Program Director for Development and Applications Unit: Warren W. Gulko

Program Director for Training Unit: Robert Huff

Program Associate for Information Systems: Charles R. Thomas The Western Interstate Commission for Higher Education (WICHE) is a public agency through which the 13 western states work together

- . . . to increase educational opportunities for westerners.
- . . . to expand the supply of specialized manpower in the West.
- ... to help universities and colleges improve both their programs and their management.
- . . . to inform the public about the needs of higher education.

The program of the WICHE Planning and Management Systems Division was proposed by state coordinating agencies and colleges and universities in the West to be under the aegis of the Western Interstate Commission for Higher Education. The Planning and Management Systems Division program proposes in summary:

To design, develop, and encourage the implementation of management information systems and data bases including common data elements in institutions and agencies of higher education that will:

- provide improved information to higher education administration at all levels.
- facilitate exchange of comparable data among institutions.
- facilitate reporting of comparable information at the state and national levels.

This publication is in the public domain in accordance with the U.S. Office of Education Contract No. OEC 0-8-980708-4533 (010).



WICHE MANAGEMENT INFORMATION SYSTEMS PROGRAM

PROGRAM CLASSIFICATION STRUCTURE

Preliminary Edition for Review

Prepared By
Warren W. Gulko

The WICHE Management Information Systems Program is supported by the U. S. Office of Education, National Center for Educational Research and Development, Division of Higher Education Research.

PLANNING AND MANAGEMENT SYSTEMS DIVISION
Western Interstate Commission for Higher Education
P. O. Drawer P Boulder, Colorado 80302



June 1970

PREFACE

The primary mission of the WICHE Management Information Systems

Program is to assist colleges and universities with the development of improved resource allocation and management systems. A related objective of the program is the development of procedures which facilitate the exchange of comparable data between institutions. A necessary part of such data exchange procedures will be a standard taxonomy or uniform classification system which identifies and categorizes the activities and programs of higher education institutions.

The following pages present the preliminary edition of the WICHE MIS
"Program Classification Structure." The Program Classification Structure
has been developed by the WICHE MIS Staff and the Analytical Task Force
in conjunction with various representatives of the WICHE MIS participating
agencies and institutions. This preliminary edition is published and
distributed in order to solicit comments and criticisms from the entire
higher education community.

In order for the Program Classification Structure to become a useful aid in structuring data for planning and analyzing higher education programs, it must reflect the requirements of the academic community. It is necessary that the WICHE MIS Staff receive critical feedback from all interested agencies and institutions. We urge all of those concerned with the future of higher education to review this document and forward their comments, criticisms, and suggestions directly to the author or members of the staff.

Ben Lawrence, Director Planning and Management Systems Division



7/3

June, 1970

TABLE OF CONTENTS

		Page
Section I	THE PROGRAM CLASSIFICATION STRUCTURE - AN OVERVIEW Introduction	1-2 1-3 1-6 1-8 1-12 1-14 1-28 1-30 1-31 1-32
Section II	THE PROGRAM STRUCTURE Introduction	2-3 2-4 2-4 2-5 2-5 2-6 2-7 2-8
Section III	THE PRIMARY PROGRAMS 1.0 Instruction	3-1 3-8 3-13
Section IV	THE SUPPORT PROGRAMS 4.0 Academic Support	4-10 4-21
Section V	GLOSSARY OF TERMS	5-1
Appendix I Appendix II Appendix III Appendix IV Appendix V	PCS Program Categories	A-3 A-26



LIST OF ILLUSTRATIONS

			Page
Figure	1.1	Example of a Discipline Instruction Cost Matrix	1-17
Figure	1.2	Example of a Discipline Instruction Unit Cost Matrix	1-18
Figure	1.3	Example of a Credit Distribution Matrix	1-21
Figure	1.4	Example of an Induced Course-Load Matrix	1-22
Figure	1.5	Crossover from Accounts to Program Elements	1-25
Figure :	2.1	Program Classification Structure Nomenclature	2-2
Figure	2.2	Sixteen Character Coding Structure	2-9
Figure	2.3	Organization of the Program Classification Structure	2-13



٧i

ACKNOWLEDGMENTS

The development of the Program Classification Structure over the past year represents the efforts of many individuals. In particular, we are indebted to the members of the Analytical Task Force who have generously contributed their time and efforts to this project:

Professor Robert F. Adams University of California, Santa Cruz

Mr. James Farmer The California State Colleges

Mr. John E. Keller University of California

Dr. Thomas R. Mason University of Colorado

Mr. M. Charles McIntyre California Coordinating Council for Higher Education Mr. Gordon D. Osborn State University of New York

Mr. Garland P. Peed California State Center Junior College District

Mr. James F. Ryan University of Washington

Dr. Martin Zeigler University of Illinois

Also contributing to the development of the Program Classification Structure were: Mr. John Bartram, University of Colorado; Mr. Roger Sisson, Mathematica; Dr. Robert Wallhaus, University of Illinois; Dr. George Weathersby, University of California, and various participants at the WICHE MIS Training Seminars. In addition, the staff of the WICHE Management Information Systems Program -- Mrs. Nancy Eklund, Dr. Robert Huff, Mr. Dennis Jones, Dr. Ben Lawrence, Mr. Leonard Romney, Mr. Charles Thomas, and Mr. Michael Young -- have all spent many long hours in discussions regarding this document and each has contributed to its development. We are particularly obliged to Bob Huff for his work in developing the HEGIS Taxonomy; to Mrs. Virginia Patterson, WICHE, for her editorial assistance; and to Mr. Leon Robertson, University of Utah, for his contribution as a Ford Foundation Visiting Professional.



Ĭ

Program Classification Structure

SECTION 1

THE PROGRAM CLASSIFICATION STRUCTURE— AN OVERVIEW



Western Interstate Commission for Higher Education
Management Information Systems (MIS) Program

SECTION I: PROGRAM CLASSIFICATION STRUCTURE - AN OVERVIEW

<u>Introduction</u>

The Program Classification Structure has been developed to provide a consistent means of identifying and organizing the activities of higher education in a program-oriented manner. It should be viewed as the basis for subsequent WICHE MIS projects in that the Program Classification Structure provides a standard framework for arraying the broad range of institutional data. The Program Classification Structure should not be construed as a new chart of accounts, nor is it a specification of a new organization system to be imposed on higher education. Moreover, it is not intended to be a replacement for existing data systems, but has been designed to supplement the institution's own unique data system.

The design of the Program Classification Structure assumes that each institution will develop internal transformation routines to convert data from the institution's record system to the Program Classification Structure format. Together with the WICHE MIS Data Element Dictionaries, the Program Classification Structure provides the basic foundation for developing a common language to facilitate the exchange of management information among the WICHE MIS participating institutions.

The pages following describe this preliminary design. Section I discusses the relation of the Program Classification Structure to various analytical methods and the underlying rationale of the structure. Section II defines the levels of the structure and the proposed coding scheme. Sections III and IV provide a detailed description and listing of the proposed programs.



The Role of the Program Classification Structure

The need for a more complete understanding and analysis of the functions and programs of colleges and universities is increasingly being acknowledged by the academic community. Often, the information required by decision-makers is not readily available under the current mode of operation, and frequently it is difficult to associate costs with major programs that serve the institution's objectives. Standard college and university accounting structures tend to identify line item expenditures with organizational units. They rarely provide the means for aggregating data in relation to institutional program goals and objectives. ²

The WICHE MIS participating institutions have recognized that a way must be found to improve planning and analysis by relating resource information to the achievement of institutional objectives. Such information is necessary in order to evaluate the costs and benefits of alternative programs. In many cases, the evaluation of higher education expenditures and benefits will require a comparison of data from similar institutions. The Program Classification Structure has been developed to facilitate this comparison of information by providing a foundation for achieving comparability in the exchange of institutional data.

Although higher education may continue to maintain varied, traditional reporting structures, a means must be developed for viewing' academic institutions as a series of goal-oriented activities related to the mission and specific objectives of the institution. A system

which will help sort out and trace the utilization of all resources channeled into the institution will aid management in determining how available resources are utilized by the various activities. By relating expenditures to objectives, management will be better able to evaluate alternatives and consider decisions regarding the allocation of scarce resources.

It is increasingly apparent that the conceptual tools of economics and management science can play a valuable role in the management of colleges and universities. The advent of modern computer technology has made the use of such management tools a reality. In the years ahead, the application of program budgeting, cost/benefit analysis, analytical models, cost exchange procedures, and unit costing will be a commonplace occurrence in higher education. The Program Classification Structure has also been developed to enable the application of these techniques to higher education. The following paragraphs describe the relation of the Program Classification Structure to some of these conceptual tools.

Program Budgeting

Rapid growth in the size and complexity of higher education, coupled with its rapidly rising cost, has been one of the causes of increased public interest in college and university expenditures. Such public concern has highlighted the need for a better understanding of resource allocation processes in higher education. Today's college administrator is faced with an array of difficult decisions as he contemplates the increased costs for maintaining existing programs, worries about providing



for an ever- icreasing number of students, seeks to improve the quality of education, and attempts to meet the demands for new and expanded services. In addition, the college administrator often must contend with ta payers' reluctance to provide additi resources without a plausible justification for the increasing costs. Thus, intelligent decision-making in higher education requires more and better information, and academic decision-makers are seeking new techniques to aid in the collection and interpretation of data. However, very few institutions of higher education can provide their chief administrators with this capability to evaluate the costs of alternative programs and relate these expenditures to some measure of achievement of institutional objectives. Faced with limited resources, increasing demands for services, and an anxious public, administrators are forced into severely constrained decisions -- management by crisis rather than by orderly planning is often the case.

Academic administrators now are seeking to extend the capabilities of the fund accounting system to incorporate techniques which satisfy traditional accounting needs while at the same time support the management decision function. A major tool to aid the academic manager in making resource allocation decisions is a higher education program budgeting system. Hirsh has suggested that the existing budgeting procedures in higher education are "...so patently uninformative that they effectively conceal most of the needed insight." While Hirsh may be overstating the case, the interest in Farmer's recent monograph demonstrates that a large part of the academic community is now looking



to "Planning, Programming, and Budgeting Systems" (PPBS) as a promising method for improving the management of higher education.

A budget, says Williams, is more than an instrument of physical control. "A budget should also lay bare the efficiency (or lack thereof) with which a university is combining its available resources to achieve results that promote the goals and objectives of that university."8 Program budgeting is not a new accounting system nor is it a more effective bookkeeping system. It is a system which attempts to "...change the method by which decisions regarding the appropriate allocation of resources come to be made." A program budget system identifies and organizes the activities of an institution in terms of its objectives, displays the costs of these activities over an extended time frame, and relates these activities and their costs to the outputs associated with the achievement of the institution's objectives. Thus, implementation of a program budget must be based on the identification of specific institutional objectives. Further, the program budgeting approach requires that dollars and other resources be aggregated in relation to outputproducing programs as well as organizational units, and that this program output be defined in a measurable fashion. 10

The Program Classification Structure is not, <u>per se</u>, a program budgeting system. There is, however, an obvious relationship between the two: the development of a program structure represents an essential first step toward implementing a program budget system. The structure presented here is but one of many alternative structures that could be used for higher education program budgeting. Although it has been



developed in a generalized manner to accommodate a wide variety of educational institutions, the Program Classification Structure is relatively consistent with the current program budgeting efforts of some of the major institutions of higher education. It is hoped, therefore, that the Program Classification Structure is sufficiently flexible to be used without extensive modification by institutions wishing to adopt a program budgeting system. To this end, it is intended that the Program Classification Structure will facilitate the adaptation of program budgeting techniques in the management of higher education.

Cost/Benefit Analysis

One way of stating the purpose of program budgeting is to say that it is intended to "bare the soul" of expenditures over a period of time and to relate these expenditures to program objectives. This process necessarily involves consideration of the costs and benefits of various alternatives. Thus, an important part of the budgeting process is the determination of which of the alternative courses of action should be selected and how the normally finite resources are to be distributed among the virtually unlimited number of competing programs. Cost/benefit analysis may be considered as a form of applied economic analysis which attempts to maximize "...the present value of all benefits less that of all costs subject to specified restraints." Keller has defined cost/benefit analysis as "...both an attitude and a set

 $^{^{\}rm a}$ e.g., The University of California, The State University System of Florida, Ohio State University, University of Toronto.



of formal analytic techniques which attempt to relate the costs and benefits of competing programs in a rigorous quantitative fashion so that choices can be made about preferred courses of action."

Cost/benefit analysis in higher education attempts to assist administrators in evaluating the cost of an individual program relative to the expected benefits of that program and other alternative programs. Through such analysis, institutions of higher education should be able to understand more completely the full costs of meeting specified output objectives, to plan in such a manner as to make more efficient use of available resources, and to compete more effectively for additional resources. However, general acceptance of cost/benefit analysis has been slow because of the problems associated with measuring the benefits of higher education. Although many studies have been undertaken, ¹⁴ some of which have exhibited a careful and thoughtful approach to the problems, the general application of cost/benefit analysis will remain a theoretical exercise until more is known about measuring and evaluating the outputs or benefits of institutions of higher learning.

The Program Classification Structure may serve as the vehicle for linking resource data to program objectives and thus should contribute significantly to effective analysis of higher education. Although some may argue that program budgeting and cost/benefit analysis are independent, the application of the Program Classification Structure to higher education cost/benefit analysis may prove to be a necessary part of the cost determination. Further, the definition of the benefits of higher education



Ã.

and more specifically, the determination of specific measurements of these benefits is crucial to the widespread adoption of this form of analysis and is, therefore, a matter of highest priority:

> To attain efficiency in higher education requires a comparison of the benefits produced and the cost entailed by higher education decisions. From society's point of view, it is the difference between these two values which must be maximized if resources are to be efficiently allocated. For this reason, discussions of economic efficiency in higher education require a concern with both volume and quality of output (and its measurements) in the cost of higher education institutions...in assessing the efficiency in equity goals, an important problem is in determining both the returns from investment in higher education and the distribution of these returns among the people. The difficulty in assessing these returns inheres in the fact that many of the benefits, as well as the cost of higher education, do not accrue directly to the individual who is being educated. Indirectly, the student's family, as well as the entire society, 16 benefits when a student obtains the higher education. 16

Analytical Models

The imbalance that presently exists between decision requirements and available information is becoming evident as educational resources grow increasingly scarce and the demand for services expands. The development of analytical models to evaluate the current operations and to analyze the future consequences of alternative courses of action will help to alleviate this imbalance.

An analytical model may be defined as a replication of a real or hypothetical system which specifies relationships between the various components of the system. As described by Hillier and Libermann:

ERIC -- 8

Mathematical models have many advantages over a verbal description of the problem. One obvious advantage is that a mathematical model describes a problem much more concisely. This tends to make the overall structure of the problem more comprehensible, and it helps to reveal important cause-anu-effect relationships. In this way, it indicates more clearly when additional data are relevant to the analysis. It also facilitates dealing with the problem in its entirety and considering all of its interrelationships simultaneously. Finally, a mathematical model forms a bridge to the use of high-powered mathematical techniques and the use of electronic computers to analyze the problem. 17

Analytical models are an important element in the management of any large-scale enterprise. They are often the only timely means of deriving a set of feasible alternatives for accomplishing some given objective. Thus, models are an integral part of a program budgeting system. Further, the application of modeling in higher education has other benefits. As Keller points out, model building is useful in four ways:

- (1) Development of the model automatically forces a deeper understanding of the interactions within the system under study; unsuspected attributes and linkages are discovered and new insights into the real nature of the problem are fostered.
- (2) Models permit the evaluation of a wide range of alternatives—surely a key feature of cost/benefit analysis. And, within a given alternative, they help trace out the cost/benefit curve so that marginal analysis is possible. Further, where the interacting variables are numerous or complex, a model can evaluate the implications of changed inputs or assumptions in a way quite beyond the powers of the average decision—maker or analyst—or even the judgment of an experienced professional in the field. Occasionally in these circumstances quite counter—intuitive answers emerge—and when subjected to empirical verification are found to be true.



- (3) Moreover, models help provide a hedge against risk and uncertainty. They answer the decision-maker's perpetual question, "What if . . . ?" A model can give him some idea of how the apparently preferred solution or alternative may vary in effectiveness over a wide range of less probable, but still conceivable, circumstances. This kind of information gives the decision-maker a better idea of the degree of risk he may be undertaking (or at least the penalty for being wrong) or may lead to the choice of an alternative with greater insurance features.
- (4) Similarly, where low confidence attaches to the most probable values for key input parameters, models help cope with uncertainty. Input values can be varied over an appropriate range to: (a) identify those inputs to which the solution is most sensitive; (b) establish quantitatively the degree of sensitivity; and (c) determine break-even points at which ostensibly preferred solutions are no longer attractive. 18

The first WICHE MIS analytical model will be the initial version of a Resource Requirements Prediction Model (RRPM-1). The RRPM-: is a set of generalized computer routines designed to estimate the resource requirements associated with operating an institution of higher education over a specified period of time. This initial model will estimate the budget, manpower, and facilities necessary to support a given number and mix of students subject to a set of constraints defined by the institution. The model will represent each of the major programs of higher education as defined by the Program Classification Structure but will concentrate initially on the instruction program.



^bThe model design is based on Weathersby's simulation model of higher education cost structures and relationships. See Ref. 19.

湖

Input to the model will also be based on the Program Classification Structure: data for support programs will be accepted at the subprogram level, for the primary programs at the program category level. (See Section II for a description of these levels.) An induced courseload matrix similar to Figure 1.4 (page 1-22) will be required for the regular instruction subprogram; however, the remaining instruction subprograms will require only a two-dimension matrix: discipline category by discipline category.

Output from the model will also follow the format of the Program Classification Structure. In addition, the model will generate various reports suitable for management analysis and comparison of alternative resource allocation decisions. Current plans are to pilot-test RRPM-1 at approximately five institutions during the 1970-71 academic year. It is anticipated that the prototype model and associated documentation will be sufficiently tested and verified for general release by approximately June 1971.

Other WICHE MIS models anticipated for the near future are a second version of the Resource Requirements Prediction Model (RRPM-2), and a student flow model. RRPM-2 will provide a more extensive analysis of the organized research program and accept data at a lower level of detail than RRPM-1. RRPM-2 is expected to be operational by approximately June 1972. The student flow model will be developed in a generalized form for both individual campuses and statewide systems. The initial effort will be directed toward the development of a campus model which



will then be extended to a statewide system model. The campus model should be available by summer 1971, the statewide system model a year later.

For any single institution the development of such models would be a difficult and costly task; however, models can be developed in a generalized form for use by many institutions. The WICHE MIS Program plans to develop generalized models in a number of areas of fundamental importance. This central developmental effort will reduce the cost to individual institutions to that of adapting the general model to the institution's unique needs. Previously, the development of generalized models has been restricted, due to the numerous data systems in higher education and the need to tailor the models to the unique structure of each institution. However, the adoption of a common standard for classifying institutional data permits the development of such generalized models by allowing the model to be designed to a general structure that can be related to each institution's data system. Thus, the Program Classification Structure will serve as a common "currency of exchange" for all institutions participating in the implementation of WICHE MIS analytical models.

Cost Exchange Procedures

Historically, American colleges and universities have tended to concern themselves with their own needs rather than the general needs of higher education. One of the significant shifts of higher education in America is the academic administrator's growing concern for the educational needs of an entire state and/or region, and how the goals of an individual college or university fit into these broader educational

ERIC Full Text Provided by ERIC

objectives.²⁰ Further, the emerging importance of program budgeting in higher education has resulted in the need for improved criteria to evaluate the effectiveness of higher education programs. However, objective measures of efficiency for an institution of higher education are difficult, if not impossible, to devise without comparable data from similar institutions.

This concern for higher education programs on a state and regional basis, coupled with a growing interest by institutions to have comparable data from similar institutions to aid in planning and analysis, has resulted in a nationwide cooperative effort to develop standard procedures for data exchange. In order to accomplish the exchange of comparable data, it is necessary to develop a taxonomy of higher education activities that will serve as a structure for classifying the various kinds of information relating to the programs of higher education. An agreement by participating institutions to adopt a common reporting structure is prerequisite to the exchange of comparable program data. 22 Thus, development of the Program Classification Structure is the first step toward exchange of comparable data for use in planning and analysis on a program basis.

An important related step will be the development and adoption of a standard set of expenditure, revenue, resource, activity, and output data categories ("component measures") to be incorporated into the Program Classification Structure.

ERIC Full Text Provided by ERIC

When the various measures of higher education activities are developed and accepted by the participating institutions, then a basis will have been established for the exchange of meaningful and consistent analytic data to assist in making better resource allocation decisions at both the intra- and inter-institutional level.

Unit Costs of Instruction

One of the more commonly used measures for analysis of higher education programs is the unit cost of instruction. There are various ways to array the data concerning the costs of college instruction. Previous studies have focused on unit cost per credit hour, ²³ cost per degree, ²⁴ and cost per student. ²⁵ All of these measures have validity in certain specific contexts, but their use has been restricted because of the problems associated with developing comparability between independent or isolated studies. A stated objective of the WICHE MIS Program is to establish comparability in this area through the development of standard procedures for reporting the unit costs of instruction. ²⁶ These procedures will determine the costs of instruction by:

- a. Academic discipline and course level of instruction
- b. Field of study (degree major) and level of student
- c. Type of degree and discipline

"Academic discipline" refers to the instructional activities within a particular discipline, e.g., physics courses. These may be further distinguished by the target level of instruction; thus, "course level" refers to the level of sophistication at which instruction in a discipline

ERIC 1-14

may be offered, 27 e.g., lower division physics. The student's "field of study" refers to the mix of courses which typically may be credited toward a specific academic degree or certificate. Instruction by "student level" is based on the total accredited work by a student and reflects his level of progress toward a degree, 28 e.g., a sophomore physics major.

Often the program concept is clouded in its application to academic instructional programs because of the dual nature of the instruction-producing activities. For example, all course offerings in physics comprise the physics discipline instruction program; whereas physics majors may take some courses in physics, some in mathematics, etc., to constitute a degree program in physics. Thus, the components of an instructional program may be reviewed in terms of their contribution to a degree program or in terms of their contribution within the discipline. Nevertheless, the distinction between instructional program cost and degree program cost is fundamental and must be kept clear and explicit:

- a. The discipline instruction program is concerned with the instruction activities in a specific field of knowledge, i.e., discipline as defined by the HEGIS Taxonomy.^C
- b. The degree program is concerned with the instruction activities in which a student engages in the pursuit of a degree or certificate, i.e., the curricula mixes which lead to the award of a specific degree.

CThe standard disciplines to be used in the Higher Education General Information Survey (HEGIS) will be published shortly by the National Center for Educational Statistics under the title, "A Taxonomy of Instructional Programs in Higher Education." A reprint, which will be referred to as the HEGIS Taxonomy is contained in Appendix II.



The Program Classification Structure immediately accommodates costs of discipline instruction by course level if instruction program elements are defined as course offerings by level, e.g., lower division physics instruction. With such data, the report illustrated in Figure 1.1 may be a direct outcome of processing instruction program elements using the format of the Program Classification Structure.

Figure 1.1 is an example of a discipline instruction cost matrix using arbitrary data to represent relative cost by discipline category and course level. Such costs would be direct instruction expenditures, i.e., obtained directly from identified instruction program elements. In addition to cost information, activity indicators such as student credit hours and weekly student contact hours will be included as part of the characteristic data associated with these program elements. With such data, the discipline instruction cost matrix illustrated in Figure 1.1 may be converted to a unit cost matrix by dividing each matrix element by the total number of units associated with the element, say student credit hours. An example of a unit cost matrix is shown in Figure 1.2.

Note that it has not yet been determined whether student credit hours or weekly student contact hours should be used as the unit measure for discipline instruction costs. Studies in the area of higher education simulation models (see Ref. 19, 29, 30) indicate that weekly student contact hours tend to reflect more accurately the load placed upon the institutional resources and should be used to determine the extent of resource utilization. However, for the purpose of determining cost of degrees, credit hours should most likely be used, since credit hours are usually the unit basis for the award of degrees. The examples following use student credit hours, although for the purposes of certain types of analysis weekly student contact hours should be substituted. Note also that the data used in Figures 1.1, 1.2, 1.3, and 1.4 are arbitrary and are for illustrative purposes only.

Total Direct Instruction Cost (For a Given Term)

COURSE LEVEL

DISCIPLINE CATEGORY	Lower Division	Upper Division	Grad/Upper Division	Graduate Only	Other	Total
Agriculture and Natural Resources	1,000	2,000	3,000	2,000	1,000	000*6
Architecture and Environmental Design	1,500	2,500	3,500	2,500	1,500	11,500
•						•
					•	•
•						•
TOTAL	100,000	200,000	300,000	200,000	100,000	000,006

Figure 1.1, EXAMPLE OF A DISCIPLINE INSTRUCTION COST MATRIX

Cost per Student Credit Hour (For a Given Term)

COURSE LEVEL

DISCIPLINE CATEGORY	Lower Pivision	Upper Division	Grad/Upper Division	Graduate Only	Other	Average
Agriculture Natural Resources	10.50	12.80	18.40	27.10	16.80	21.30
Architecture and Environmental Design	14.50	17.50	26.40	31.40	22.90	25.50
٠						٠
•						•

Figure 1.2, EXAMPLE OF A DISCIPLINE INSTRUCTION UNIT COST MATRIX

24.90

21.60

36.70

31.50

15.20

13.80

AVERAGE

1-18

To make the transition from unit costs by discipline instruction and course level to unit costs by field of study and student level, requires information on the distribution of courses taken by students of various levels in the different majors, e.g., the courses taken by freshmen majoring in Agriculture. Figure 1.3 is an example of the credit distribution matrix for students majoring in Agriculture which describes the total number of credit hours generated by these students at a particular point in time.

Dividing the elements of each column in Figure 1.3 by the total number of students for the column results in an average distribution of credit hours per student by level. For example, suppose there were 20 freshmen majoring in Agriculture and they generated the credit hours shown in Column 1 of the Credit Distribution Matrix. Dividing each of the column entries by 20 will result in the distribution of average credit hours per freshman Agriculture major. This distribution of average credits is often referred to as the "induced course-load matrix" or the "student crossover matrix" -- a matrix which describes the distribution of the average load placed on the instruction program by students pursuing various degrees, e.g., the math courses taken by physics majors, chemistry courses taken by history majors, upper division courses taken by freshmen. For the present, it is assumed that the induced course-load matrix is developed and maintained apart from, but in a manner compatable with, the Program Classification Structure. Figure 1.4 is an example of a portion of an induced course-load matrix for a given term and a particular field of study.

27



The portion of the induced course-load matrix illustrated in Figure 1.4 is a three-dimensional matrix which describes the historical or current average distribution of credit hours for a student in Agriculture and Natural Resources by student level for each discipline and course level at a particular point in time. The complete induced course-load matrix is normally four-dimensional: Field of Study by Student Level and Discipline by Course Level.



Field of Study: AGRICHITHE AND NATHRAL RESONDERS

MANICULIUNE AND IMIUNAL NESUUNCES	
A I UNAL	for a Given Term)
	Given
LIUNE	for a
AGE I CO	Hours
rield of Study.	(Credit Hours
5	
בום	

STUDENT LEVEL

TOTAL	400 350 450 180 20	1,400	30 100 120	 3,000
6 12	10 40 100 50 10	210	30 20	300
2	10 70 90 30	500	20 30	400
4	20 90 50 5	175	10	390
က	80 130 1130	270	ا ا م	009
2	140	180	1 10	340
-	120 20	140		330
DISCIPLINE by COURSE LEVEL	Agriculture and Natural Resources Lower Division Upper Division Graduate Graduate	Subtotal	Architecture and Environmental Design Lower Division Upper Division Upper/Graduate	 TOTAL

Figure 1.3, EXAMPLE OF A CREDIT DISTRIBUTION MATRIX

Field of Study: AGRICULTURE AND NATURAL RESOURCES

(Average Credit Hours per Student for a Given Term)

STUDENT LEVEL

OVERALL AVERAGE	1.6 1.8 0.7	5.6	0.1 0.5 	12.0
6 12	0.2 0.8 1.0 0.2	4.2	0.6 0.4	<u>6.0</u>
വ	0.5 1.8 0.6	4.0	0.6	8.0
4	0.7 3.0 1.7 0.2 0.1	5.7	0.3	13.0
м	3.2	6.7	0.4	15.0
2	7.0 2.0	0.6	0 1 1	17.0
	0.0	7.0		16.5
DISCIPLINE by COURSE LEVEL	Agriculture and Natural Resources Lower Division Upper Division Upper/Graduate Graduate Other	Subtotal	Architecture and Environmental Design Lower Division Upper Division Upper/Graduate	TOTAL

Figure 1.4, EXAMPLE OF AN INDUCED COURSE-LOAD MATRIX

The application of these various tools to higher education management is, clearly, a difficult but compelling problem. It should be recognized that academic objectives are multi-dimensional and consideration must be given to both the quantity and quality of the output. Thus, any criterion for the achievement of an academic objective should reflect both of these dimensions. Further, the restricted nature of resources often requires some degree of trade-off between the quantity and quality dimensions of higher education programs. Such measurements must, therefore, incorporate the interaction between the two. In order to define a set of common measures and objectives for use by colleges and universities, agreement must be reached on questions such as:

- a. What goals are various types of institutions seeking to achieve?
- b. What specific and operationally identifiable objectives characterize these goals?
- c. What are the outputs which contribute to the achievement of specific objectives and how do we measure them?

Development of answers to these questions may necessitate modifications in the proposed Program Classification Structure. The extent of such modification is unknown at this time. However, it is reasonable to assume that modification of this structure is inevitable, for as Melvin Anshen so wisely stated, "Precisely how to achieve a rational and useful structure for a program budget is not yet evident. Moving toward an optimal structure will inevitably be a gradual process." An optimal Program Classification Structure must, therefore, be developed carefully and thoughtfully and in a manner which is responsive to the needs



(

of academic decision-makers. The paragraphs following present the initial attempt to describe a generalized structure which has been developed to further inter-institutional comparability and standardized data exchange.

The Rationale of the Structure

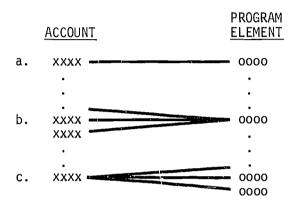
The Program Classification Structure, is intended to provide a mechanism which will facilitate the organization of data and the use of various planning and management tools. It is designed to supplement the institution accounting structure without requiring the institution to restructure its current operational system. For most institutions, a transformation routine can be developed which will provide a crossover from the chart of accounts to the Program Classification Structure without a major change in the accounting system.

The Program Classification Structure is based on program elements which are separately controlled, output-producing activities established to achieve the program objectives. Although the program element concept is used essentially for planning and management purposes, data from the normal accounting system may be transformed into the Program Classification Structure format through the program elements. Figure 1.5 is a diagram of the three ways in which financial account data will relate to the Program Classification Structure:



^eA program element is defined as a collection of resources, technologies, and policies which, through their integrated operation, produce goods or services, i.e., an output, which is of value to the organization because it contributes to the achievement of an institutional objective.

FIGURE 1.5
Crossover from Accounts to Program Elements



- a. data will map directly from one account to one program element;
- data will map from more than one account into a program element; or
- c. one account may split into two or more program elements.

A sample transformation or "crosswalk" which relates typical accounts to a program structure is contained in Appendix IV. For the various operational uses of the Program Classification Structure, it may be necessary to assign or allocate the cost and other data within these functions to program elements and allocate the data back to the appropriate areas of the program. The structure has been designed to aid in identifying the range of the allocation (see <u>Coding</u>, page 2-9) for those cases where a program element logically should be distributed across programs or various sectors within a program.



The Program Classification Structure has been developed with five objectives in mind:

- To develop a common framework for classifying and organizing the program elements of higher education institutions.
- 2. To design the structure so that it is usable by a substantial variety of institutions with a wide range of institutional objectives.
- 3. To retain, where feasible, compatibility with current institutional structures.
- 4. To facilitate the transformation of data between existing institutional accounts and the Program Classification Structure.
- To facilitate the exchange of institutional data and subsequent comparison and analysis.

There are many ways to view the role of higher education. Depending on the perspective, various conceptualizations of primary objectives can be formed. 32 Hartley, writing on educational program planning and budgeting systems, suggests that there is no single "best" program structure for educational organizations because of the diversity of institutional characteristics and the range of missions that may modify the goals. 33 While this may be true, the need for consistent and comparable data requires that certain semi-arbitrary judgments be made to determine what appear to be common activities in higher education. The Program Classification Structure is designed to accommodate the objectives and modes of operation common to a wide variety of institutions. It is recognized that there will be certain unique institutional characteristics not easily identified in the standard Program Classification Structure. Nevertheless, the goal is to accommodate the vast majority of institutions by defining the structure

in a generalized form consistent with the typical objectives and activities of most colleges and universities. Moreover, the basis of the structure is program elements, defined by the institution, which may be reorganized in a structure that is compatible with an institution's specific objectives. Thus, an institution may aggregate program elements in one manner for institutional purposes and in another manner for WICHE MIS purposes without in any way restructuring its fundamental accounting system or organizational structure.

For the purposes of the Program Classification Structure, a program may be considered a set of program elements serving a common objective. The assignment of program elements to programs is based on the "primary intent" of the program element, i.e., the basic purpose or major reason for establishing and maintaining the program element. However, programs should be structured so that program elements which produce similar outputs are included within the same program.

For these purposes, a program element may be thought of as a collection of resources, technologies, and policies which, through their integrated operation, produce goods or services, i.e., an output, which is of value to the organization because it contributes to the achievement of an institutional objective. The program element represents the smallest, unique collection of resources which are output-producing activities, i.e., a set of resources and activities integrated in such a manner that no one activity or resource, without the contribution or support of the others, can contribute to the objective in a



measurable fashion. An instructional course is an example of a program element -- for instance, Introductory Physics is:

- a. a collection of resources and technologies (e.g., faculty, technicians, labs, and equipment);
- integrated through a series of activities (e.g., lectures, labs, discussion sessions);
- c. in a manner defined by a set of policies (e.g., lecture outline, lab manual, text);
- to produce a specific output (e.g., an increased level of knowledge of the basic principles of physics for one or more students);
- which contributes to an institutional objective (e.g., provide knowledge and learning).

Primary and Support Programs

The Program Classification Structure groups campus programs into two major types: primary programs and support programs. The primary programs contain the activities directly related to the accomplishment of the primary missions of the institution. Support programs contain those activities which are necessary or vital for the successful operation of the primary programs. Support programs have been structured in a manner that will facilitate the allocation of their costs to the primary programs for the purpose of determining average unit costs and total program costs.

The traditional functions of higher education have been retained in the Program Classification Structure: instruction, research, and public service are classified as primary programs. The libraries, administration, and student services are considered part of the support



programs. The following is a list of the major programs used in the Program Classification Structure:

PRIMARY PROGRAMS

- 1.0 Instruction Program
- 2.0 Organized Research Program
- 3.0 Public Service Program

SUFPORT PROGRAMS

- 4.0 Academic Support Program
- 5.0 Student Service Program
- 6.0 Institutional Support Program
- 7.0 Independent Operations Program

The arrangement of programs as primary and support inevitably requires a partially arbitrary classification. Many in the academic community would argue that the libraries are an integral part of the primary missions of any institution of higher learning. Others may argue that student development is a primary mission and should be so designated. It is likely that similar arguments can be presented for various assignments throughout the structure. Although some element of arbitrariness is an unfortunate necessity when developing a standard classification scheme, the proposed Program Classification Structure has been developed only after extensive and thorough consultation with various institutions and agencies of higher education. The assignment of program elements to various categories and the classification of programs is based on the "typical institution" notion, i.e., that which will fit the majority



Į

of colleges and universities. The design of the structure is sufficiently flexible to accommodate most deviations from the norm. However, if necessary, it is possible to restructure the various programs in order to conform to unique institutional characteristics or other conceptual views of primary and support objectives without redefining the program elements.

Instruction

Institutions of higher education obviously have certain objectives in common. Basic to all institutions of higher education is that they offer some form of post-secondary instruction and most award degrees or certificates as an indicator of the level of proficiency achieved by the student. Thus, instruction leading toward a formal degree or certificate appears to be a primary objective common to most institutions of higher educacion. The instruction program consists of those program elements whose outputs are primarily eligible for credit in meeting specified formal curricular requirements, leading toward a particular degree or certificate granted by the institution.

Organized Research

In addition to the instruction program, many institutions allocate a significant portion of their resources in support of research activities. The primary objective of an organized research program is the creation and dissemination of new knowledge. It consists of program elements which have been specifically organized to produce research outcomes commissioned by an agency either external to the institution or authorized by an organizational unit within the institution.



Institutions conducting organized research may choose to engage only in projects which also contribute to the achievement of other objectives, e.g., the graduate instruction program. One of the major spillover benefits of the organized research program, therefore, is the opportunity it provides for research activities which are essential to high quality graduate instruction and faculty development. The existence of these spillover benefits may have important cost-reducing effects on the instructional program. Nevertheless, despite these interactions the organized research activities should be identified as distinct programs since the primary intent of the research activities is the achievement of research outcomes (new knowledge) specified by the commissioning agency. It is recognized that the "primary intent" principle, while useful as an initial test for classifying program elements, should not preclude institutional analysis or special studies to determine more explicitly the contribution to joint products. This is of particular concern in the area of organized research where there may be significant joint contribution to both instruction and research objectives.

<u>Public Service</u>

Many institutions of higher education provide services to clientele external to the institution, i.e., the general public. Public service program elements are established to make available to the public the various unique resources and capabilities of higher education. The objective of a public service program is to provide services which are beneficial to groups external to the institution. Such benefits may be cultural or economic and may be directed toward individuals, common interest groups, or larger communities.



Academic Support

Typically, institutions establish program elements to provide services which are vital to the processes of the primary programs. The objectives of the academic support program are to provide support services which are an integral part of the operations of the primary programs. These are defined as the preservation, maintenance, and display of the current stock of knowledge and the provision of various services and capabilities for the primary programs. The academic support program is further characterized by the media and technology employed in accomplishing its overall objectives.

The media for preserving, maintaining, and displaying the stock of knowledge include printed materials and manuscripts, works of art, artifacts, natural objects, motion pictures, video tape, photographs a 'slides, recordings, and other data recorded in electro-magnetic form.

Typically, materials in these various media have been preserved, maintained, and displayed in functional entities such as libraries, museums, galleries, and other repositories. These organizational or physical entities may be categorized by major academic disciplines to which they are devoted.

Computing support has been included in the academic support program because computer technology is emerging as an important service integral to instruction, research, and public service activities. Consider establishing a modern college or university with an instruction program or research program of any significance without access to a computer facility. It may be that isolated examples can be found which demonstrate



that computing support is not always a necessary part of the instruction, research, and public service programs. However, in general it appears that computing services are as much a part of higher education as, say, libraries and, in certain cases, they may replace libraries as an information source.

In addition to computing support, other ancillary units may be established to provide various services or supplement the activities of the primary programs. These program elements are characterized by the joint-product nature of their operation, in that they relate to all three primary programs. An example of an ancillary operation is a teaching hospital which provides the capability for the practical application of the health science disciplines in a manner which directly serves the objectives of the instruction program, the public service program, and often the research program.

Student Service

The overall objective of a student service program is to contribute to the student's emotional and physical well-being and his intellectual, cultural, and social development, outside the context of the formal academic program. The student service program attempts to achieve this overall objective by (a) enhancing the student's effectiveness as a student; (b) expanding the dimensions of the student's educational experience; and (c) providing the necessities and conveniences for the physical and emotional well-being of students.



Institutional Support

In higher education, as in any organized system, program elements have been established to provide those services which are necessary to maintain and sustain the organization. The institutional support program consists of program elements which provide operational support for the day-to-day functioning of the organization. The overall objective of the institutional support program is to maintain the institution's organizational effectiveness and continuity. It does this by (a) providing planning and executive direction; (b) providing efficient administrative and logistical services; (c) maintaining the quality of the physical environment; (d) enhancing relationships with the institution's constituencies; and (e) providing necessities and conveniences for faculty and staff.

<u>Independent Operations</u>

In addition to the above programs, colleges and universities often engage in activities that are independent of the existence of an institution of higher education. The independent operations program is established to collect those program elements which may be viewed as not related directly to the objectives of an institution of higher education.

ERIC PROVIDENCE OF ERIC

SECTION II: THE PROGRAM STRUCTURE

Introduction

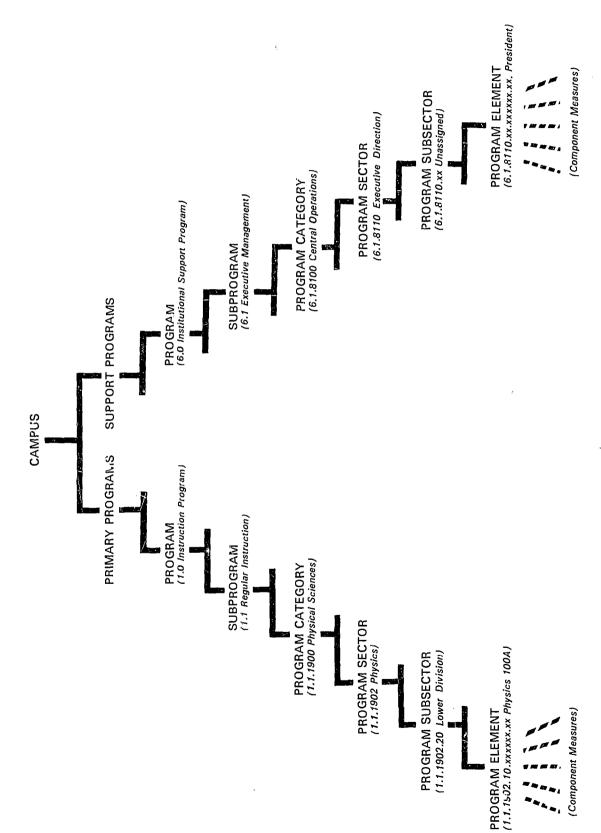
A program structure is a classification system that categorizes the activities of an organization according to their relationship to the organization's objectives. 34 Although various schemes may be used, there are certain aggregation levels that are traditionally found in program structures: 35

- a) Program
- b) Subprogram
- c) Program Element

The WICHE MIS Program Classification Structure has expanded the number of levels in order to provide alternative aggregation levels and multi-dimensional classifications for analysis purposes. The levels of the structure are illustrated in Figure 2.1, page 2-2, and described in detail on the following pages. Briefly, the organizational unit is the CAMPUS, consisting of Primary programs and Support programs for the purpose of associating resources with programs and outputs. PROGRAM represents the major institutional missions and related support objectives. The program objective may be described by a number of sub-objectives which are represe. J by the SUBPROGRAM. The PROGRAM CATEGORY is an implicitly defined aggregation of Program Sectors which may be used to sum related Program Elements across program lines. PROGRAM SECTOR represents a



Figure 2.1: Program Classification Structure Nomenclature





collection of homogeneous program elements. The PROGRAM SUBSECTOR is included to identify the level of course for Instruction program elements, but is available for use in other programs at the option of the institution.

PROGRAM ELEMENT represents an activity or set of activities which contribute directly to the program objective in a measurable fashion. A Program Element is the primary component of the Program and represents the lowest order of aggregation for data in the Program Classification Structure. The various data which comprise a Program Element will be referred to as Component Measures, i.e., the indicators and expense categories associated with a Program Element. Component Measures serve as characteristic quantitative measures of output and resources utilized in the activities of a Program Element. The specific Component Measures to be used with the WICHE MIS Program Classification Structure will be the subject of a separate report.

The paragraphs following describe these various levels of the structure: Campus

Campus is the highest level of aggregation in the Program Classification Structure. Multi-campus institutions and state systems may wish to develop individual, systemwide summary schemes; however, multi-campus data may be processed using the Program Classification Structure. Such data may be aggregated and summarized using the unassigned right two characters of the sixteen character coding structure to identify Program Elements by campus.



(

Primary and Support Programs

Primary programs are those programs which contribute directly to the mission of the institution. Support programs are those programs which are adjunct to, or in direct support of, the Primary programs.

Coding: Primary and Support programs are implicitly defined and do not require a code.

Program

Program is an aggregation level, structuring Program Elements into the major objectives defined in Section I. The Program Classification Structure is based on seven programs:

- 1. Instruction Program
- 2. Organized Research Program
- 3. Public Service Program
- 4. Academic Support Program
- 5. Student Service Program
- 6. Institutional Support Program
- 7. Independent Operations Program

Coding: A one character numeric code.

Subprogram

Subprogram is a subdivision of the Program for the purpose of collecting Program Elements into homogeneous sets related to the sub-objectives of the program. Subprograms are listed in Figure 2.3, page 2-13.

Coding: Two character numeric code; the first character defined by the Program code.



Program Category

1

Program Category is a classification of similar or related Program Sectors by area or function. The Program Category permits classification of Program Sectors independent of the program or subprogram structure and may be used to aggregate functionally related Program Elements across Program lines. Program Categories for the Instruction program, the Organized Research program, and the Public Service program correspond to the discipline categories of the HEGIS Taxonomy (Appendix I).

Coding: Program Category is implicitly defined by the first two characters of the Program Sector code. See Appendix I for a complete listing of the Program Categories.

Program Sector

Program Sector is a collection of Program Elements organized to achieve or contribute to a specific set of outputs related to the program objectives. Program Elements which are substitutes, i.e., produce similar outputs, should be organized within the same Program Sector. Program Sectors for the Instruction program, the Organized Research program, and the Public Service program correspond to the discipline sectors of the HEGIS Taxonomy (Appendix II).

Coding: Four character numeric code. See Sections III and IV

of this report for a description of the proposed Program

Sectors.



fExcluding Agriculture Extension Service.

Program Subsect<u>o</u>r

Program Subsector refers to a subset of Program Elements within a Program Sector. It is designed primarily to identify the level of course for Instruction Program Elements, e.g., lower division. Subsector may be used as a convenient identification for institutional analysis in other programs where its use is optional.

Course level refers to the level of offering for instructional courses (normally associated with student level) but may be used in other programs to differentiate various student groups. The following codes are recommended for use in the Instruction Program (1.0), and are optional for use in the Organized Research Program (2.0), the Academic Support Program (4.0) and the Student Service Program (5.0), where it may be appropriate to link program elements with course levels:

- 1x. Preparatory
- 2x. Lower Division
- 3x. Upper Division
- 4x. Combined Upper Division and Graduate of Professional
- 5x. Graduate or Professional Only
- 9x. Other

Lower Division (2x) relates to course offerings primarily intended for freshman and sophomore students, Upper Division (3x) for junior and senior students, Graduate and Professional (5x) relates to post-baccalaureate offerings. Preparatory (1x) refers to non-credit course offerings which may be required as part of the curricular requirements or preparation for lower division work. Combined Upper Division and Graduate or



Professional (4x) is to be used in those cases where no distinction is made between undergraduate and graduate courses. Other (9x) is a course level for those situations where the normal course levels are not appropriate.

The following codes are recommended for the Public Service program (3.0):

- 6x. Individuals
- 7x. Common Interest Groups
- 8x. Community Sectors.
- 9x. Other

Individuals (6x) refers to continuing education courses offered for general clientele, i.e., individuals within the community at large. Common Interest Groups (7x) refers to continuing education for specific professions or special interest groups. Community Sectors (8x) are the public service activities directed at particular sectors or subgroups of the community.

Coding: Two character numeric code. The first character is reserved for the above codes, the second character is unassigned.

Program Subsector coding is unassigned for the Institutional Support program (6.0), and the Independent Operations program (7.0).

Program Element

The lowest level of aggregation is the Program Element; a collection of resources, technologies, and policies integrated through a set of



activities to directly contribute to the program objective in a measurable fashion. It is normally a distinct entity, separately managed or controlled, and represents the basic unit of the Program Classification Structure.

Coding: A six character alpha-numeric code. Program Element codes are institutionally defined. Participating institutions should attempt to organize their Program Elements and associated coding structure in a manner which facilitates the transfer of current and future institutional data to the Program Classification Structure.

Note: In developing the Program Element code, institutions should make provisions to permit defining Instruction Program Elements at the course or section level.

Component Measures

Associated with each Program Element are Component Measures which charact rize the Program Element. They are the indicators of resource utilization and output associated with the activities of the Program Elements. Although presently undefined, it is planned that the Component Measures will reflect quantitative measures of the following:

- a. Expenditures
- b. Revenues
- c. Resources
- d. Activities
- e. Outputs

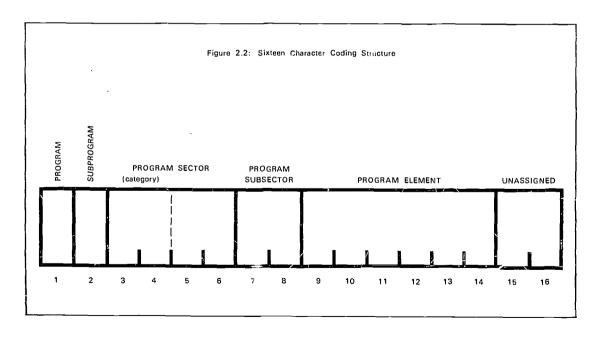
Component Measures will be designed to allow a linkage to the regular account structure in order that program elements may be



identified to organizational units and the institution's chart of accounts. In addition, Component Measures will permit alternative aggregations of the Program Elements, e.g., by source of funds.

Coaing

The Program Classification Structure is based on a sixteen character code to identify each Program Element. Figure 2.2 displays the proposed coding scheme for the Pragram Classification Structure. The fields of the sixteen character code correspond to the previously described levels of the structure. The last two characters, 15 and 16, are unassigned to allow the option of developing unique institutional reports, e.g., identifying the various campuses in a multi-campus system.





5.2 2-9

The codes for the first eight characters are specified by the WICHE MIS Program Classification Structure. The coding for the remaining eight characters, i.e., the program element codes, are institutionally defined in order that each i titution may identify its program elements in a manner which facilitates the transformation of data from the institution's data system.

The coding structure has been designed to permit the entry of program elements at various levels within the structure. Normally, a program element is identified to a specific program sector. However, occasionally it is not appropriate to assign a program element specifically to one program sector, but rather to some higher level within the structure. In these cases, the coding scheme allows for zero entries in order that program elements may be included at a level of aggregation appropriate to the particular program element. For example, consider a program element for the management and administration of a major organizational unit, e.g., the Dean of Agriculture. Suppose this program element is appropriately identified only with the regular instruction subprogram (1.1). For this case, the program element may be coded using 0100 for the program sector code (Agriculture) which would permit the program element to be assigned to the program category level; e.g.,

1.1.0100.00.xxxxxx xx

The zero entries indicate that this program element is associated with all subsectors (.00.) and all program sectors (.0100) within the Agriculture regular instruction program category.



Further suppose that it is not appropriate to identify this particular program element with the regular instruction subprogram; but rather the program element is related to all three primary programs; Instruction, Organized Research, and Public Service. In this case, the subprogram and program code would be entered as a zero to indicate that the program element is distributed across programs, e.g.,

0.0.0100.00.xxxxxx xx

The additional zero entries indicate that the program element is associated with Agriculture program sectors occurring in all subprograms and programs (0.0.).

The provision for a zero entry permits program elements to be entered at the campus level, the program level, the subprogram level, or the program category level; whichever is appropriate to the specific program element. Reports will be developed to display such program elements and list them separately from the other program elements. For various applications of the Program Classification Structure, allocation procedures will be designed in a manner which will permit distributing the cost of such higher level program elements back to the appropriate program sectors without a loss of information related to the program element.



Organization of the Structure

The Program Classification Structure has been designed to permit the aggregation of program elements in alternative ways to support various internal institutional needs. The coding scheme, described in Sections III and IV following, is suggested for use by institutions participating in the WICHE Management Information Systems Program in order to provide the framework for comparable data exchange and the use of generalized models.

Figure 2.3 displays the organization of the Program Classification Structure to the subprogram level and the associated codes by program. The names and the coding for the primary program sectors, i.e., those in Instruction, Organized Research, and Public Service are based on the new HEGIS Taxonomy of Academic Disciplines. Appendix II is a reprint of the HEGIS Taxonomy which has been adopted as the coding structure for use in primary program sectors. The coding for support program sectors is also based on the HEGIS Taxonomy where it appears useful to identify program elements with disciplines.



7.0 INDEPENDENT OPERATIONS 7.1 Institutional Operations 7.2 Outside Agencies SUPPORT PROGRAMS 6.0 INSTITUTIONAL SUPPORT 6.3 General Administrative Services 6.5 Physical Plant 6.6 Faculty & Staff Services 6.2 Financial Operations 6.1 Executive Management Community Relations Operations 6.4 Logistical Services 6.7 5.2 Supplementary Educational Development Figure 2.3: Organization of the Program Classification Structure 5.3 Counseling & Career 5.0 STUDENT SERVICE 5.4 Financial Aid Guidance 5.1 Social & 5.5 Studeni Support Cultural Service CAMPUS 4.0 ACADEMIC SUPPORT 4.2 Museums & Galleries 4.4 Computing Support 4.5 Ancillary Support 4.1 Libraries Services Audio/ Visual 4.3 Departmental Continuing 3.0 PUBLIC SERVICE Community 3.4 Campus Community Continuing Organized Education Organized Education Extension Extension Service Service 3.3 3.2 PRIMARY PROGRAMS 2.0 ORGANIZED RESEARCH 2.1 Institutes & Research 2.2 Individual or Project Research Centers 1.0 INSTRUCTION 1.4 Experimental Special Session Instruction (for credit) 1.1 Regular Instruction Instruction Instruction Extension 1.2 1.3

55

(

3.5 Agriculture

Extension Service

SECTION III: THE PRIMARY PROGRAMS

The Program Classification Structure is divided into Primary programs and Support programs. The rationale for this dichotomy was discussed previously in Section I, but it should be mentioned again that this separation is made only to identify classifications of programs and has no reflection upon the purposes of any institution of higher education.

The Primary programs are those programs which contribute directly to the major missions of higher education. For the purposes of the WICHE MIS Program Classification Structure, these programs are defined as:

- 1.0 Instruction Program
- 2.0 Organized Research Program
- 3.0 Public Service Program

1.0 Instruction Program

The Instruction program consists of all formal instructional activities in which a student engages to earn credit toward a degree or certificate at the institution. Those program elements which have been established to provide instructional services, but are not creditable toward degrees, should be assigned to the Student Service program (5.0) if the primary intent is to provide supplemental or remedial educational services for matriculated students; or to the Public Service program (3.0) if the primary intent is to offer instructional services for members of the community.



The Instruction program presently consists of four subprograms:

- 1.1 Regular Instruction
- 1.2 Special Session Instruction
- 1.3 Extension Instruction (for credit)
- 1.4 Experimental Instruction

The coding for each of the above subprograms is based on the HEGIS Taxonomy as listed in Appendix II. For those cases in which a program element is not identified to a HEGIS discipline sector, the program element should be assigned to the appropriate HEGIS discipline category. In certain cases, it will be necessary to assign program elements to "Other Instruction" (9100), which is a miscellaneous program category appearing in each Instruction subprogram. Other Instruction should be used only for program elements which are appropriately assigned to the Instruction program but do not fit within the specifications of the HEGIS disciplines. The program sectors for this category are unassigned and may be coded in a manner which best accommodates the structure of the institution.

Regular Instruction (1.1) are those instructional program elements operating during the standard academic term (as defined by the institution) which are part of a formal degree or certificate curriculum and are managed by the regular academic departments. Excluded from Regular Instruction are experimental and innovative program elements, extension or similar program elements, and instructional activities during special sessions.

ERIC Full Text Provided by ERIC

Special Session Instruction (1.2) includes instructional program elements which earn credit toward a formal degree or certificate and are offered during a summer session, interim session, or other period that is not common with the institution's regular term. Institutions operate on various term bases and some institutions may wish to segregate their instructional activities during the special sessions in order to preserve compatibility with other participating institutions. This subprogram will allow the optional separation of such special session program elements.

Extension Instruction (for credit) (1.3) includes all instructional program elements that are managed separately by an extension division (or similar agency within the institution) and are applicable toward a formal degree or certificate. Excluded from this subprogram are those extension program elements or similar activities which may not be credited toward formal degrees or certificates and are offered by an institution primarily as a public service; e.g., continuing education, short courses, etc.

Experimental Instruction (1.4) is included in the structure to identify temporary instructional program elements which are experimental or innovative and represent a marked departure from the standard curriculum. It is assumed that such experimental program elements can be identified with a discipline category and are applicable toward a formal degree or certificate. At such time as a program element within the Experimental Instruction subprogram becomes an accepted part of the normal curriculum, the program element should be included in Regular Instruction and dropped from the Experimental Instruction subprogram.



1.0 INSTRUCTION PROGRAM

1.1 REGULAR INSTRUCTION SUBPROGRAM

1.1.0100 Agriculture and Natural Resources		(Program Category)
1.1.0103 Soils Sciend 1.1.0104 Animal Sciend 1.1.0105 Dairy Sciend 1.1.0106 Poultry Sciend 1.1.0107 Fish, Game, 1.1.0108 Horticultura 1.1.0110 Agricultura 1.1.0111 Agricultura 1.1.0112 Agricultura 1.1.0113 Food Science 1.1.0114 Forestry 1.1.0115 Natural Reso	ield Crops, and Crop Management ce (Management and Conservation) ce (Husbandry) ce (Husbandry) ence and Wildlife Management e (Fruit and Vegetable Production) Horticulture (Floriculture, Nursery l and Farm Management l Economics l Business e and Technology ources Management and Forestry Technologies ement	(Program Sector) Science)
1.1.0200 Architecture and Environmental Design		
1.1.0201 Environmenta 1.1.0202 Architecture 1.1.0203 Interior Des		• ·
• No	te: Refer to Appendix II for a complete listing of the HEGIS discipline sectors.	
1.1.5500 Public Service Related Technologies		
1.1.5501 Public Serv	ice Technologies, General	
•		
1.1.5599 Other, Specify		
1.1.9100 <u>Other Instruction</u>		
1.1.9101 Unassigned: 1.1.9199	May be used for Instruction progr which are established to provide instruction for degree credit and appropriately assigned to the HEG categories and sectors as listed I and II.	regular are not IS discipline

1.0 INSTRUCTION PROGRAM (continued)

1.2 SPECIAL SESSION INSTRUCTION SUBPROGRAM

```
(Program Category)
1.2.0100 Agriculture and Natural Resources
  1.2.0101
            Agriculture, General
                                                                 (Program Sector)
            Agronomy, Field Crops, and Crop Management
  1.2.0102
            Soils Science (Management and Conservation)
Animal Science (Husbandry)
Dairy Science (Husbandry)
  1.2.0103
  1.2.0104
  1.2.0105
  1.2.0106
            Poultry Science
  1.2.0107
            Fish, Game, and Wildlife Management
  1.2.0108
            Horticulture (Fruit and Vegetable Production)
  1.2.0109
            Ornamental Horticulture (Floriculture, Nursery Science)
  1.2.0110
            Agricultural and Farm Management
  1.2.0111
            Agricultural Economics
  1.2.0112
            Agricultural Business
  1.2.0113
            Food Science and Technology
  1.2.0114
            Forestry
  1.2.0115
            Natural Resources Management
  1.2.0116
            Agriculture and Forestry Technologies
  1.2.0117
            Range Management
           Other, Specify
  1.2.0199
1.2.0200 Architecture and Environmental Design
  1.2.0201
            Environmental Design, General
  1.2.0202
            Architecture
  1.2.0203 Interior Design
                             Refer to Appendix II for
                     Note:
                             a complete listing of the
                             HEGIS discipline sectors.
1.2.5500 Public Service Related Technologies
  1.2.5501 Public Service Technologies, General
  1.2.5599 Other, Specify
1.2.9100 Other Instruction
  1.2.9101 Unassigned:
                          May be used for Instruction program elements
                          which are established to provide special
                          session instruction for degree credit and
                          are not appropriately assigned to the HEGIS
                          discipline categories and sectors listed
```



1.2.9199

in Appendices I and II.

1.0 INSTRUCTION PROGRAM (continued)

1.3 EXTENSION INSTRUCTION (for credit) SUBPROGRAM

```
1.3.0100 Agriculture and Natural Resources
                                                             (Program Category)
  1.3.0101 Agriculture, General
                                                               (Program Sector)
  1.3.0102 Agronomy, Field Crops, and Crop Management
            Soils Science (Management and Conservation)
  1.3.0103
           Animal Science (Husbandry)
Dairy Science (Husbandry)
  1.3.0104
  1.3.0105
  1.3.0106
            Poultry Science
  1.3.0107
            Fish, Game, and Wildlife Management
  1.3.0108
           Horticulture (Fruit and Vegetable Production)
  1.3.0109
           Ornamental Horticulture (Floriculture, Nursery Science)
  1.3.0110 Agricultural and Farm Management
  1.3.0111
            Agricultural Economics
  1.3.0112 Agricultura! Business
  1.3.0113
           Food Science and Technology
  1.3.0114
           Forestry
  1.3.0115 Natural Resources Management
  1.3.0116 Agriculture and Forestry Technologies
  1.3.0117 Range Management
  1.3.0199 Other, Specify
1.3.0200 Architecture and Environmental Design
  1.3.0201
            Environmental Design, General
  1.3.0202 Architecture
  1.3.0203 Interior Design
                            Refer to Appendix II for
                     Note:
                            a complete listing of the
                            HEGIS discipline sectors.
1.3.5500 Public Service Related Technologies
  1.3.5501 Public Service Technologies, General
  1.3.5599 Other, Specify
1.3.9100 Other Instruction
  1.3.9101 Unassigned: May be used for Instruction program elements
                         which are established to provide extension
                         instruction for degree credit and are not
                         appropriately assigned to the HEGIS discipline
                         categories and sectors listed in Appendices
```



61

I and II.

1.3.9199

1.0 INSTRUCTION PROGRAM (continued)

1.4 EXPERIMENTAL INSTRUCTION SUBPROGRAM

```
1.4.0100 Agriculture and Natural Resources
                                                                     (Program Category)
                                                                       (Program Sector)
  1.4.0101
             Agriculture, General
            Agronomy, Field Crops, and Crop Management
  1.4.0102
             Soils Science (Management and Conservation)
Animal Science (Husbandry)
Dairy Science (Husbandry)
  1.4.0103
  1.4.0104
  1.4.0105
             Poultry Science
Fish, Game, and Wildlife Management
  1.4.0106
  1.4.0107
             Horticulture (Fruit and Vegetable Production)
Ornamental Horticulture (Floriculture, Nursery Science)
  1.4.0108
  1.4.0109
  1.4.0110
            Agricultural and Farm Management
             Agricultural Economics
  1.4.0111
  1.4.0112 Agricultural Business
  1.4.0113
            Food Science and Technology
  1.4.0114
             Forestry
  1.4.0115
             Natural Resources Management
  1.4.0116 Agriculture and Forestry Technologies
  1.4.0117
             Range Management
  1.4.0199 Other, Specify
1.4.0200 Architecture and Environmental Design
  1.4.0201 Environmental Design, General 1.4.0202 Architecture
  1.4.0203 Interior Design
                               Refer to Appendix II for
                        Note:
                                a complete listing of the
                                HEGIS discipline sectors.
1.4.5500 Public Service Related Technologies
  1.4.5501 Public Service Technologies, General
  1.4.5599 Other, Specify
1.4.9100 Other Instruction
  1.4.9101 Unassigned:
                            May be used for Instruction program elements
                            which are established to provide experimental
                            instruction for degree credit and are not appropriately assigned to the HEGIS discipline
                            categories and sectors as listed in Appendices
```



1.4.9199

3-7

I and II.

2.0 Organized Research Program

The Organized Research program comprises all research-related program elements established within the institution under the terms of agreement with agencies external to the institution, or separately budgeted and conducted with internal funds. A research-related program element is one which is established to undertake an investigation of a specified scope as defined by the commissioning agency. Included are research divisions, bureaus, institutes, and experimental stations. Externally funded educational program elements such as workshops, short courses, and training grants would normally be considered as either Instruction or Public Service. In all cases, the primary intent or objective should be the criterion for classifying any program element.

Organized Research consists of two subprograms:

- 2.1 Institutes and Research Centers
- 2.2 Individual or Project Research

The Organized Research program structure is based on the HEGIS Taxonomy as listed in Appendix II. Included in both of the above subprograms is the program category "Other Organized Research" (92CO). This is a miscellaneous category to be used for those program elements which are not appropriately identified with the HEGIS discipline categories. The program sectors for the Other Organized Research category are unassigned, and may be defined by the institution in a manner which best serves their particular structure.

Institutes and Research Centers (2.1) contains all research-related program elements which are part of a formal research organization. Typically, research organizations are created to manage a number of research efforts. Program elements belonging to such semi-autonomous entities should be included within this program and classified according to the HEGIS disciplines wherever possible. In some cases, it may be preferred to classify these research organizations in relation to the general program category, e.g., physical sciences, rather than a specific program sector, e.g., physics. Research organizations which cannot be identified with a specific program category should be assigned a program sector code within the Other Organized Research program category.

Individual or Project Research (2.2) contains the research program elements which are normally managed within the academic departments. This subprogram consists of the various research-related program elements which have been created as a result of a contract, grant, or specific allocation of institutional resources to conduct a study or investigation of a specified scope. Generally, such program elements may be identified with the principal investigator and should be coded within his discipline sector or category. Program elements within this subprogram are normally of a temporary nature, i.e., created for a specified period of time, as contrasted to the more permanent nature of the research organizations within the Institutes and Research Centers subprogram.

3-9



Excluded from the Individual or Project Research subprogram are those activities related to the improvement of instructional skills, i.e., departmental research. The WICHE MIS Program has stated the position that such activities are inseparable from the instructional function and should be included within the instruction program. 36

2.0 ORGANIZED RESEARCH PROGRAM

2.1 INSTITUTES AND RESEARCH CENTERS SUBPROGRAM

```
2.1.0100 Agriculture and Natural Resources
                                                                (Program Category)
                                                                  (Program Sector)
  2.1.0101
            Agriculture, General
  2.1.0102
            Agronomy, Field Crops, and Crop Management
  2.1.0103
            Soils Science (Management and Conservation)
  2.1.0104
            Animal Science (Husbandry)
            Dairy Science (Husbandry)
  2.1.0105
            Poultry Science
  2.1.0106
            Fish, Game, and Wildlife Management
Horticulture (Fruit and Vegetable Production)
Ornamental Horticulture (Floriculture, Nursery Science)
  2.1.0107
  2.1.0108
  2.1.0109
  2.1.0110
            Agricultural and Farm Management
  2.1.0111
            Agricultural Economics
  2.1.0112
            Agricultural Business
            Food Science and Technology
  2.1.0113
  2.1.0114
            Forestry
  2.1.0115
            Natural Resources Management
 2.1.0116
            Agriculture and Forestry Technologies
  2.1.0117
            Range Management
  2.1.0199 Other, Specify
2.1.0200 Architecture and Environmental Design
            Environmental Design, General
  2.1.0201
  2.1.0202 Architecture
  2.1.0203 Interior Design
                      Note:
                             Refer to Appendix II for
                              a complete listing of the
                             HEGIS discipline sectors.
2.1.5500 Public Service Related Technologies
  2.1.5501 Public Service Technologies, General
  2.1.5599 Other, Specify
2.1.9200 Other Organized Research
  2.1.9201 Unassigned: May be used for Organized Research Institutes
                          and Centers unique to the institution or
                           otherwise not appropriately identified to
                           the HEGIS disciplines; e.g. interdisciplinary
                          centers.
  2.1.9299
```



2.0 ORGANIZED RESEARCH PROGRAM (continued)

2.2 INDIVIDUAL OR PROJECT RESEARCH SUBPROGRAM

2.2.0100 Agriculture and Natural Resources	(Program Category)	
2.2.0101 Agriculture, General 2.2.0102 Agronomy, Field Crops, and Crop Management 2.2.0103 Soils Science (Management and Conservation) 2.2.0104 Animal Science (Husbandry) 2.2.0105 Dairy Science (Husbandry) 2.2.0106 Poultry Science 2.2.0107 Fish, Game, and Wildlife Management 2.2.0108 Horticulture (Fruit and Vegetable Production) 2.2.0109 Ornamental Horticulture (Floriculture, Nurser 2.2.0110 Agricultural and Farm Management 2.2.0111 Agricultural Economics 2.2.0112 Agricultural Business 2.2.0113 Food Science and Technology 2.2.0114 Forestry 2.2.0115 Natural Resources Management 2.2.0116 Agriculture and Forestry Technologies 2.2.0117 Range Management 2.2.0199 Other, Specify	(Program Sector) y Science)	
2.2.0200 Architecture and Environmental Design		
2.2.020! Environmental Design, General 2.2.0202 Architecture 2.2.0203 Interior Design		
 Note: Refer to Appendix II for a complete listing of the HEGIS discipline sectors. 		
2.2.5500 Public Service Related Technologies		
2.2.5501 Public Service Technologies, General		
2.2.5599 Other, Specify		
2.2.9200 Other Organized Research		
2.2.9201 Unassigned: May be used for individual or pr Organized Research program eleme which are not appropriately iden to the HEGIS discipline categori sectors listed in Appendices I a	nts tified es and	



3.0 Public Service Program

The Public Service program contains the program elements within the institution which produce outputs directed toward the benefit of the community or individuals residing within the geographic service area of the institution. This program consists, primarily, of two major types of services -- continuing education and general public service.

For the purposes of the Program Classification Structure, continuing education service is considered to be those activities conducted by instructional program elements which have been established to provide an educational service to the various members of the community, and are not part of the degree curriculum, e.g., short courses, professional review courses, etc. Excluded from continuing education are those educational services provided to matriculated students such as program elements which have been established to provide preparatory, supplemental, or remedial instruction and are not part of the degree curriculum, e. g., English for foreign students, noncredit courses in study skills, tutorial courses. In those cases where preparatory instruction is required as part of the degree program, the program elements should be carried in the Instruction program (1.0) at the "lx" subsector level.

Community service is concerned with making available to the public various resources and unique capabilities that exist within the institution. Examples of community service may be conferences and institutes, general advisory services and reference bureaus, urban affairs, international affairs, radio and television, consultation, and similar activities



which meet the test that the primary intent for establishing and maintaining the program element is to provide services which are beneficial to groups and individuals outside of the institution. It is likely that program elements will occur which contribute jointly to the public service program and one or more of the other programs, e.g., a convocation which is open to the general public. In such instances, it will be necessary for the institution to determine whether the primary intent is directed toward the Public Service program or, for example, the Student Service program, and assign the program element accordingly.

Subprograms within Public Service draw a distinction between organized extension activities and campus or departmental public service activities. The nature of extension organizations, or similar organizations, is such that, typically, they exist as semi-autonomous subsystems within the institution and require separate analysis. For this reason, provision has been made to segregate the formal extension organization from the rest of the campus through separate subprograms.

The Public Service program contains five subprograms:

- 3.1 Departmental Continuing Education
- 3.2 Organized Extension Continuing Education
- 3.3 Organized Extension Community Service
- 3.4 Campus Community Service
- 3.5 Agriculture Extension Service

Coding for the first four subprograms is based on the HEGIS Taxonomy as listed in Appendix II. Moreover, each of the public service subprograms

ERIC 3-14

contains the program category, "Other Public Service" (9300), which provides a block of unassigned program sectors for classifying program elements which are not appropriately identified with the HEGIS discipline categories or sectors.

The subsector coding for the Public Service program includes three additional levels beyond the standard course levels. The following subsector coding is recommended for distinguishing various program elements by target clientele:

- 6x Individuals
- 7x Common Interest Groups
- 8x Community Sectors
- 9x Other

The subsector "Individuals" (5x) is for general continuing education courses which are provided for individuals within the community at large, as contrasted to specific interest groups. Examples of general continuing education program elements may be non-credit courses of the following nature: Law for the Layman, Music Appreciation, Efficient Reading, etc.

Common Interest Groups (7x) is primarily for continuing education aimed at specific professions, e.g., continuing medical education, C.P.A. review, recent advances in tax law; or specific, homogeneous populations within the community, e.g., high school students, expectant mothers.

Community Sectors (8x) is to be used for well-defined geographic or political subdivisions such as particular socio-economic classes, specific neighborhoods or communities, etc.



<u>Departmental Continuing Education</u> (3.1) contains the program elements that are managed within the academic departments to provide continuing education, i.e., non-credit instructional services, to members of the community other than matriculated students.

Organized Extension Continuing Education (3.2) consists of the program elements within a formal extension organization which have been established to provide continuing educational services to members of the community other than the matriculated students.

Organized Extension Community Service (3.3) are those program elements which have been established within a formal extension organization to provide general community services, excluding instructional activities.

Campus Community Service (3.4) consists of program elements which are managed either within the academic departments or elsewhere within the institution and have been established to provide general public services to the community at large or special sectors within the community. Faculty consulting activities may be included within this subprogram by means of a pseudo-program element to represent the institutional resources committed to this type of service. Organized extension community services and all instructional services are excluded.

Agriculture Extension Service (3.5) has been established as a separate subprogram to accommodate the normally autonomous and self-contained subsystem of organized agriculture extension. Generally, when such a subprogram exists within an institution of higher education, it represents a major commitment of unique resources. Program categories for the

Agriculture Extension Service subprogram are based on the U. S. Department of Agriculture's Extension Management Information System Data Definition document, (EMIS). The EMIS System defines 13 programs which have aggregated into four program categories as follows: (Numbers in parentheses correspond to the national extension element codes.)

6600 - Agricultural and Related Industries includes:

Improving farm income (01)

Marketing, utilization, distribution, and farm supply (03)

Pesticide education and emergency preparedness (10)

Forestry production and marketing (18)

6700 - Social and Economic Developments includes:

Soil and water conservation (02)

Community development (16)

Recreation wildlife and natural beauty (17)

Resource protection and environmental improvement (50)

6800 - Quality of Living includes:

Food and Nutrition (09)

4-H youth development (11)

Improved family living (12)

6900 - International Extension equates with:

International programs (06)



EMIS element number 90, Program Leadership and Administrative Support, should be entered in the program structure at the subprogram level, bypassing the program categories, as a program element that relates to all of the program categories within the subprogram.

Because of the varied manner in which institutions relate their program elements to the national EMIS system, the program sectors for the Agriculture Extension Service subprogram have been left unassigned. Institutions may define program sectors within the coding structure in a manner which best serves the institutional purposes. A complete description of the program elements associated with each of the Agriculture Extension Service program categories is described in the National EMIS Purpose List for FY 1971³⁸ which served as the basis for the Agriculture Extension Service subprogram structure.

3.0 PUBLIC SERVICE PROGRAM

3.1 DEPARTMENTAL CONTINUING EDUCATION SUBPROGRAM

```
(Program Category)
3.1.0100 Agriculture and Natural Resources
                                                                (Program Sector)
           Agriculture, General
  3.1.0101
  3.1.0102
           Agronomy, Field Crops, and Crop Management
  3.1.0103
            Soils Science (Management and Conservation)
           Animal Science (Husbandry)
Dairy Science (Husbandry)
  3.1.0104
  3.1.0105
  3.1.0106
            Poultry Science
  3.1.0107
            Fish, Game, and Wildlife Management
          Horticulture (Fruit and Vegetable Production)
  3.1.0108
           Ornamental Horticulture (Floriculture, Nursery Science)
  3.1.0109
  3.1.0110 Agricultural and Farm Management
           Agricultural Economics
Agricultural Business
  3.1.0111
  3.1.0112
  3.1.0113
           Food Science and Technology
  3.1.0114
           Forestry
  3.1.0115
           Natural Resources Management
  3.1.0116
           Agriculture and Forestry Technologies
           Range Management
  3.1.0117
  3.1.0199 Other, Specify
3.1.0200 Architecture and Environmental Design
  3.1.0201
            Environmental Design, General
  3.1.0202
           Architecture
  3.1.0203 Interior Design
                             Refer to Appendix II for
                     Note:
                             a complete listing of the
                             HEGIS discipline sectors.
3.1.5500 Public Service Related Technologies
  3.1.5501 Public Service Technologies, General
  3.1.5599 Other, Specify
3.1.9300 Other Public Service
  3.1.9301 Unassigned:
                         May be used for Public Service program
                          elements which have been established within
                          the academic departments to provide non-credit
                          instruction and are not appropriately assigned
                          to the HEGIS discipline categories and sectors
  3.1.9399
                          as listed in Appendices I and II.
```

3.2 ORGANIZED EXTENSION CONTINUING EDUCATION SUBPROGRAM

3.2.0100 Agriculture and Natural Resources (Program Category)					
3.2.0102 Agronomy, Field 3.2.0103 Soils Science 3.2.0104 Animal Science 3.2.0105 Dairy Science 3.2.0106 Poultry Science 3.2.0107 Fish, Game, a 4.2.0109 Ornamental Homographical Agricultural 3.2.0110 Agricultural 3.2.0112 Agricultural 3.2.0112 Agricultural 3.2.0113 Food Science 3.2.0114 Forestry 3.2.0115 Natural Resource 3.2.0116 Agriculture a 3.2.0117 Range Manager	Agronomy, Field Crops, and Crop Management Soils Science (Management and Conservation) Animal Science (Husbandry) Dairy Science (Husbandry) Poultry Science Fish, Game, and Wildlife Management Horticulture (Fruit and Vegetable Production) Ornamental Horticulture (Floriculture, Nursery Science) Agricultural and Farm Management Agricultural Economics Agricultural Business Food Science and Technology Forestry Natural Resources Management Agriculture and Forestry Technologies Range Management				
3.2.0200 Architecture and Environmental Design					
3.2.0201 Environmental 3.2.0202 Architecture 3.2.0203 Interior Desi					
. Note	e: Refer to Appendix II for a complete listing of the HEGIS discipline sectors.				
3.2.5500 Public Service Related Technologies					
3.2.5501 Public Service.	ce Technologies, General				
3.2.5599 Other, Specify					
3.2.9300 Other Public Service					
3.2.9301 Unassigned: 3.2.9399	May be used for Public Service procedements which have been establish within the organized extension subto provide non-credit instruction not appropriately assigned to the discipline categories and sectors in Appendices I and II.	ned oprogram and are HEGIS			

3.3 ORGANIZED EXTENSION COMMUNITY SERVICE SUBPROGRAM

```
3.3.0100 Agriculture and Natural Resources
                                                              (Program Category)
  3.3.0101
            Agriculture, General
                                                                (Program Sector)
  3.3.0102
            Agronomy, Field Crops, and Crop Management
            Soils Science (Management and Conservation)
  3.3.0103
  3.3.0104
            Animal Science (Husbandry)
  3.3.0105
            Dairy Science (Husbandry)
  3.3.0106
            Poultry Science
            Fish, Game, and Wildlife Management
  3.3.0107
  3.3.0108
            Horticulture (Fruit and Vegetable Production)
            Ornamental Horticulture (Floriculture, Nursery Science)
  3.3.0109
            Agricultural and Farm Management
Agricultural Economics
  3.3.0110
  3.3.0111
  3.3.0112
            Agricultural Business
  3.3.0113
            Food Science and Technology
  3.3.0114
            Forestry
  3.3.0115
            Natural Resources Management
  3.3.0116
            Agriculture and Forestry Technologies
            Range Management
  3.3.0117
  3.3.0199
            Other, Specify
3.3.0200 Architecture and Environmental Design
  3.3.0201
            Environmental Design, General
  3.3.0202
            Architecture
  3.3.0203 Interior Design
                            Refer to Appendix II for
                     Note:
                            a complete listing of the
                            HEGIS discipline sectors.
3.3.5500 <u>Public Service Related Technologies</u>
  3.3.5501 Public Service Technologies, General
  3.3.5599 Other, Specify
3.3.3300 Other Public Service
  3.3.9301
            Unassigned:
                         May be used for Public Service program
                         elements which have been established
                         with the organized extension subprogram
                         to provide general community service
                         and are not appropriately assigned to
```



3.3.9399

the HEGIS discipline categories and sectors as listed in Appendices I and II.

3.4 CAMPUS COMMUNITY SERVICE SUBPROGRAM

```
3.4.0100 Agriculture and Natural Resources
                                                             (Program Category)
                                                              (Program Sector)
  3.4.0101
            Agriculture, General
            Agronomy, Field Crops, and Crop Management
  3.4.0102
  3.4.0103
            Soils Science (Management and Conservation)
  3.4.0104
           Animal Science (Husbandry)
            Dairy Science (Husbandry)
  3.4.0105
           Poultry Science
  3.4.0106
            Fish, Game, and Wildlife Management
  3.4.0107
            Horticulture (Fruit and Vegetable Production)
  3.4.0108
            Ornamental Horticulture (Floriculture, Nursery Science)
  3.4.0109
           Agricultural and Farm Management
  3.4.0110
  3.4.0111
           Agricultural Economics
  3.4.0112
            Agricultural Business
  3.4.0113
            Food Science and Technology
            Forestry
  3.4.0114
  3.4.0115
            Natural Resources Management
            Agriculture and Forestry Technologies
  3.4.0116
  3.4.0117
            Range Management
  3.4.0199
           Other, Specify
3.4.0200 Architecture and Environmental Design
  3.4.0201
            Environmental Design, General
  3.4.0202
           Architecture
  3.4.0203
           Interior Design
                     Note: Refer to Appendix II for
                            a complete listing of the
                            HEGIS discipline sectors.
3.4.5500 Public Service Related Technologies
  3.4.5501 Public Service Technologies, General
  3.4.5599 Other, Specify
3.4.9300 Other Public Service
  3.4.9301 Unassigned:
                         May be used for Public Service program
                         elements which have been established
                         within the academic departments (or
                         other campus groups) to provide general
                         community service and are not appropriately
  3.4.9399
                         assigned to the HEGIS discipline categories
```



77

and sectors as listed in Appendices I and II.

3.5 AGRICULTURE EXTENSION SERVICE SUBPROGRAM

3.5.6600 Agriculture and Related Industries

(Program Category)

3.5.6601 Unassigned: May be used for Agriculture Extension Service program elements established

to provide public service for the

agricultural industry.

3.5,6699

3.5.6700 Social and Economic Development

3.5.6701 Unassigned: May be used for Agriculture Extension

Service program elements established

to provide public service for social

and economic development in the rural areas.

3.5.6799

3.5.6800 Quality of Living

3.5.680% Unassigned: May be used for Agriculture Extension

Service program elements established

to improve the quality of rural life.

3.5.6899

3.5.6900 International Extension

3.5.6901 Unassigned: May be used for Agriculture Extension

Service program elements established to

provide public service related to international

activities.

3.5.6999

3.5.9300 Other Public Service

3.5.9301 Unassigned: May be used for Agriculture Extension

Service program elements established to

provide public service which are not

appropriately assigned to the above program

78

categories.

3.5.9399



SECTION IV: THE SUPPORT PROGRAMS

The Support programs are those programs which are organized to provide direct support to the Primary programs or supplement the mission of the Primary programs. For the purposes of the WICHE MIS Program Classification Structure, the Support programs are defined to be:

- 4.0 Academic Support Program
- 5.0 Student Service Program
- 6.0 Institutional Support Program
- 7.0 Independent Operations Program

4.0 Academic Support Program

The Academic Support program are those program elements which support the Primary programs through the retention, preservation, and display of materials, or provide services which directly assist the academic functions of the institution. Within the Academic Support program are five subprograms:

- 4.1 Libraries
- 4.2 Museums and Galleries
- 4.3 Audio/Visual Services
- 4.4 Computing Support
- 4.5 Ancillary Support

The program structure for the Academic Support program is based on the HEGIS discipline categories as listed in Appendix I. Note that the coding structure is such that institutions wishing to classify program elements at a lower level of detail, i.e., the HEGIS discipline sectors, may use all four characters as listed in Appendix II. However,



79

the typical case will be to identify Academic Support program elements at the discipline category level.

Each of the Academic Support subprograms contain the program category, "Other Academic Support" (9400), which has been established to identify those program elements which are not central to the subprogram nor appropriately assigned to the HEGIS discipline categories. Program sector codes within this program category are unassigned and may be defined in a manner which best serves the structure of the institution. Note that program elements which are central to the subprogram should not be included within this category, but should be entered at the subprogram level using zeros in the program sector field to indicate the central nature of the program element, e.g., an institution has a single library serving all sectors of the institution.

The subsector codes may be used within the Academic Support program to indicate the level of program where the program element is appropriately identified to the course level, e.g., a graduate library.

<u>Libraries</u> (4.1) consists of all activities which directly support the operation of a catalogued or otherwise classified collection of published material. Program elements within the library subprogram will normally be separate library entities such as the law library, the engineering library, etc.

<u>Museums and Galleries</u> (4.2) includes all program elements established to provide services related to the collection, preservation, and



exhibition of historical materials, art objects, scientific displays, etc. Other program elements which may exist for the purpose of collection, preservation, and exhibition should be included within this subprogram, e.g., an arboretum. Libraries are excluded.

Audio/Visual Services (4.3) are all program elements associated with providing audio and/or visual materials to support the primary programs. Program elements are normally organizational units established to provide audio/visual service to a particular sector of the institution. Wherever possible, the program elements should be classified according to the HEGIS Taxonomy.

Care should be exercised in discriminating between the establishment of program elements to provide the audio/visual services for the primary programs, and program elements which use audio/visual technology as part of the instructional process. An example may be a language lab which is part of the degree curriculum and should be listed within the instruction program. However, a separate program element may be established to service the audio equipment within the language lab in addition to other audio equipment throughout the institution. If the service function is an integral part of the language lab, it would, of course, be part of that program element; however, if it exists separate from the language lab and provides such services across the institution, it should be carried within the audio/visual subprogram. Other examples include "dial access" centers, learning resource centers, and closed circuit television courses. Dial access centers and similar learning resource centers normally would be considered substitutes for library-related services and should be



carrie within the audio/visual services subprogram. Closed-circuit television courses may be identified with a course program element and should be included as part of the program element. The facilities, equipment, and personnel associated with these funct would not be included within the audio/visual service subprogram unless they are providing a general service to multiple programs, as opposed to being an integral part of program elements within separate programs.

Computing Support (4.4) contains those program elements which have been established to provide computing support to the primary programs. Excluded from this subprogram is administrative data processing which is included as part of the Institutional Support program (6.0). Computer assisted instruction should be handled in the same manner as closed circuit television, i.e., it may be identified with a course program element and should be carried within that program element. Program elements within Computing Support are defined in the same manner as libraries, i.e., separately managed entities such as the engineering computer center.

Ancillary Support (4.5) are program elements which provide support services to the primary programs and are not appropriately classified within the previous subprograms. Examples of ancillary support include teaching hospitals and demonstration schools. Teaching hospitals should be assigned to the Health Professions discipline (1200), demonstration schools to Education (0800). Such ancillary support activities, when they exist, normally provide joint services to the Instruction, Organized Research, and Public Service programs.

4.0 ACADEMIC SUPPORT PROGRAM

4.1 LIBRARIES SUBPROGRAM

4.1.0000*

4.1.0100 Agriculture and Natural Resources 4.1.0200 Architecture and Environmental Design 4.1.0300 Area Studies 4.1.0400 Biological Sciences 4.1.0500 Business and Management 4.1.0600 Communications 4.1.0700 Computer and Information Sciences 4.1.0800 Education 4.1.0900 Engineering 4.1.1000 Fine and Applied Arts 4.1.1100 Foreign Languages 4.1.1200 Health Professions 4.1.1300 Home Economics 4.1.1400 Law 4.1.1500 Letters 4.1.1600 Library Science 4.1.1700 Mathematics 4.1.1800 Military Sciences 4.1.1900 Physical Sciences 4.1.2000 Psychology 4.1.2100 Public Affairs and Services 4.1.2200 Social Sciences 4.1.2300 Theology 1 and 1 and 1 4.1.4900 Interdisciplinary Studies 4.1.5000 Business and Commerce Technologies Data Processing Technologies Health Services and Paramedical Technologies 4.1.5100 4.1.5200 4.1.5300 Mechanical and Engineering Technologies 4.7.5400 Natural Science Technologies 4.1.5500 Public Service Related Technologies

4.1.9400 Other Academic Support

4.1.9401 Unassigned: May be used for Academic Support program elements which are established to provide library services and are not appropriately assigned to the above HEGIS discipline categories.

4.1,9499

Use 0000 for those cases where a central unit services all disciplines, e.g., one central library.



4.2 MUSEUMS AND GALLERIES SUBPROGRAM

4.2.0000*

4.2.0100 Agriculture and Natural Resources 4.2.0200 Architecture and Environmental Design 4.2.0300 Area Studies 4.2.0400 Biological Sciences Business and Management 4.2.0500 4.2.0600 Communications 4.2.0700 Computer and Information Sciences 4.2.0800 Education 4.2.0900 Engineering Fine and Applied Arts 4.2.1000 4.2.1100 Foreign Languages Health Professions 4.2.1200 4.2.1300 Home Economics 4.2.1400 Law 4.2.1500 Letters 4.2.1600 Library Science 4.2.1700 Mathematics 4.2.1800 Military Sciences Physical Sciences 4.2.1900 4.2.2000 Psychology 4.2.2100 Public Affairs and Services Social Sciences 4.2.2200 4.2.2300 Theology 4.2.4900 Interdisciplinary Studies 4.2.5000 Business and Commerce Technologies 4.2.5100 Data Processing Technologies Health Services and Paramedical Technologies 4.2.5200 4.2.5300 Mechanical and Engineering Technologies Natural Science Technologies 4.2.5400 Public Service Related Technologies 4.2.5500

4.2.9400 Other Academic Support

4.2.9401 Unassigned: May be used for Academic Support program elements which are established to provide exhibition or preservation services and are not appropriately assigned to the above HEGIS discipline categories.

4.2.9499

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., one central museum.



84

4.3 AUDIO/VISUAL SERVICES SUBPROGRAM

4.3.0000*

4.3.0100 Agriculture and Natural Resources 4.3.0200 Architecture and Environmental Design 4.3.0300 Area Studies 4.3.0400 Biological Sciences 4.3.0500 Business and Management 4.3.0600 Communications 4.3.0700 Computer and Information Sciences 4.3.0800 Education 4.3.0900 Engineering 4.3.1000 Fine and Applied Arts 4.3.1100 Foreign Languages Health Professions 4.3.1200 4.3.1300 Home Economics 4.3.1400 Law 4.3.1500 Letters 4.3.1600 Library Science 4.3.1700 Mathematics 4.3.1800 Military Sciences 4.3.1900 Physical Sciences 4.3.2000 Psychology 4.3.2100 Public Affairs and Services 4.3.2200 Social Sciences 4.3.2300 Theology 4.3.4900 Interdisciplinary Studies 4.3.5000 Business and Commerce Technologies Data Processing Technologies Health Services and Paramedical Technologies 4.3.5100 4.3.5200 Mechanical and Engineering Technologies Natural Science Technologies Public Service Related Technologies 4.3.5300 4.3.5400 4.3.5500

4.3.9400 Other Academic Support

4.3.9401	Unassigned:	May be used for Academic Support program
•		elements which are established to provide
•		audio/visual services and are not appropriately
•		assigned to the above HEGIS discipline categories.

4.3.9499

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., one central audio/visual service.



4.4. COMPUTING SUPPORT SUBPROGRAM

4.4.0000*

4.4.0100 Agriculture and Natural Resources 4.4.0200 Architecture and Environmental Design 4.4.0300 Area Studies 4.4.0400 Biological Sciences 4.4.0500 Business and Management 4.4.0600 Communications 4.4.0700 Computer and Information Sciences 4.4.0800 Education 4.4.0900 Engineering 4.4.1000 Fine and Applied Arts 4.4.1100 Foreign Languages 4.4.1200 Health Professions 4.4.1300 Home Economics 4.4.1400 Law 4.4.1500 Letters 4.4.1600 Library Science 4.4.1700 Mathematics 4.4.1800 Military Sciences 4.4.1900 Physical Sciences 4.4.2000 Psychology 4.4.2100 Public Affairs and Services Social Sciences 4.4.2200 4.4.2300 Theology 4.4.4900 Interdisciplinary Studies 4.4.5000 Business and Commerce Technologies 4.4.5100 Data Processing Technologies 4.4.5200 Health Services and Paramedical Technologies 4.4.5300 Mechanical and Engineering Technologies 4.4.5400 Natural Science Technologies 4.4.5500 Public Service Related Technologies

4.4.9400 Other Academic Support

4.4.9401 Unassigned: May be used for Academic Support program elements which are established to provide computational services and are not appropriately assigned to the above HEGIS discipline categories.

4.4.9499

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., one central scientific computer center.



86

١,

4.5 ANCILLARY SUPPORT SUBPROGRAM

4.5.0000*

```
4.5.0100 Agriculture and Natural Resources
4.5.0200 Architecture and Environmental Design
4.5.0300 Area Studies
4.5.0400 Biological Sciences
4.5.0500
           Business and Management
4.5.0600
           Communications
4.5.0700 Computer and Information Sciences
4.5.0800 Education
           Engineering
4.5.0900
4.5.1000
           Fine and Applied Arts
4.5.1100 Foreign Languages
4.5.1200 Health Professions
           Home Economics
4.5.1300
4.5.1400
           Law
4.5.1500 Letters
4.5.1600 Library Science
4.5.1700 Mathematics
4.5.1800 Military Sciences
4.5.1900 Physical Sciences
4.5.2000
           Psychology Psychology
           Public Affairs and Services
Social Sciences
4.5.2100
4.5.2200
           Theology
4.5.2300
4.5.4900
           Interdisciplinary Studies
4.5.5000
            Business and Commerce Technologies
4.5.5100 Data Processing Technologies
4.5.5200 Health Services and Paramedical Technologies
4.5.5300 Mechanical and Engineering Technologies
4.5.5400 Natural Science Technologies
4.5.5500 Public Service Related Technologies
```

4.5.9400 Other Academic Support

4.5.9401	Unassigned:	May be used for Academic Support program
•		elements which are established to provide
•		ancillary support services and are not
•		appropriately assigned to the above
4.5.9499		HEGIS discipline categories.

*Note: Use 0000 for those cases where a central unit services all disciplines.



5.0 Student Service Program

The Student Service program comprises all program elements related to the institution's student body, excluding the degree-related curriculum and student records. Within the Student Service program are the following five subprograms:

- 5.1 Social and Cultural Development
- 5.2 Supplementary Educational Service
- 5.3 Counseling and Career Guidance
- 5.4 Financial Aid
- 5.5 Student Support

Within each of these subprograms is the program category, "Other Student Service" (9500), which may be used for classifying those program elements which are appropriately assigned to the subprogram but do not fit the specifications of program categories within the subprogram. Program sector coding for "Other Student Service" is unassigned in order that institutions may structure the coding in a manner which best serves institutional needs. Program elements which are central to the subprogram should not be included within this category, e. g., a single placement bureau serves the entire campus. Such program elements should be entered at the subprogram level, using zeros in the program sector field to indicate the central nature of the program element.

Subsector codes may be used within the Student Service program to indicate program elements which are appropriately identified to the course level, e.g., lower division counseling.

ERIC

88

Social and Cultural Development (5.1) are those program elements which have been established to provide for the student's social and cultural development outside of the degree curriculum.

The Student Development (7100) program category consists of the program elements established to provide for the social and physical development of the student outside the context of the formal academic program. Student Activities (7110) includes the program elements which are primarily supported and controlled by the student body, including student associations, student newspaper, dances, affairs, etc. Cultural Events (7120) includes those program elements outside of the curriculum program which have been established to expand the educational experience, e.g., convocations, special conferences, lectures, etc. Student Organizations (7130) would represent those program elements established to support the various student clubs, fraternities, and special interest groups. Recreation (7140) includes the program elements established to provide recreational opportunities for the general student body, e.g., swimming pool, golf course, bowling alleys, etc. Excluded from the Recreation program sector is intercollegiate athletics, intramural programs, and physical education curriculum activities. Intramural Athletics (7150) includes the program elements established to support an intramural program which involves formal participation by members of the student body.

Included within this subprogram is the program category "Inter-collegiate Athletics" (7200) which classifies program elements by the intercollegiate sport. It is assumed that the primary intent of intercollegiate athletics is to enhance the student's development.



89

Supplementary Educational Service (5.2) includes all program elements which have been established to provide supplemental instruction outside of the normal academic program. The program elements within this subprogram should be classified according to the HEGIS discipline categories as listed in Appendix I; however, it may frequently be the case that such supplemental instruction is not directly identified by the HEGIS Taxonomy and should be coded in 95xx. Generally, program elements within the subprogram are established to provide remedial educational service as contrasted to instructional program elements which are a part of the degree curriculum. Non-credit courses which are part of the curricular requirements should be included within the Instruction program and indicated as preparatory within the subsector field.

Counseling and Career Guidance (5.3) contains program elements established to provide counseling services, career guidance, and placement services for the student body. Excluded from this subprogram is informal academic counseling provided by the faculty in relation to course assignments. In those cases where counseling or career guidance represents a portion of the faculty assignment, a psuedo-program element may be used to identify the institutional resources committed to this subprogram. Included in this subprogram are placement bureaus or similar program elements. Coding is based on the HEGIS discipline categories as listed in Appendix I. Note that the coding structure allows the further disaggregation of program elements by HEGIS discipline sector. However, the general case will most likely be that such program elements are identified to the more aggregate discipline category level, e.g., Law placement, College of Education counseling center.

Financial Aid (5.4) consists of program elements established to provide financial aid and assistance to students. Coding for this subprogram is based on the HEGIS discipline categories listed in Appendix I. As in the Counseling and Career Guidance subprogram, the coding structure is such that program elements may be disaggregated to this HEGIS discipline sector level at the option of the institution; however, the general case will most likely be that financial aid program elements are associated with more aggregate HEGIS discipline categories, e.g., Engineering School Financial Aid office.

Student Support (5.5) contains program elements established within the institution to provide convenience services to the student body or services to special student groups. For many institutions, it will often be difficult to discriminate between convenience services provided for the benefit of students and those provided for faculty and staff, e.g., a central cafeteria for both. In such instances, the program element will typically be identified to the Student Support subprogram unless the primary intent is clearly to provide services for the faculty and staff.

The Supporting Service (7300) program category consists of program sectors related to housing, health, and other convenience services for the student which are substitutes for similar services normally available within the community. Food Services (7310) are program elements such as the cafeteria, snack bar, food and drink vending machine operations, etc. Included in Food Services are dining halls associated with the dormitories, i.e., exclusively for the use of those students living in the dormitory. Health Services (7320) are the various program elements established to provide



medical services including dental and psychiatric care. Housing Services (7330) include the program elements associated with the dormitories and housing office. Retail Services and Concessions (7340) are those program elements created to provide retail services (excluding food services) to the students in areas such as the book store, barber shop, etc.

The Special Student Service (7400) program category contains the program elements which have been established to provide various services to special groups of students. Veterans (7410) includes program elements established to provide information services and processing of forms related to veterans affairs. Foreign Students (7420) includes program elements established within the institution to provide special services to foreign students, e.g., foreign student offices, but excluding special, remedial, or supplemental educational services. The program sector for Disadvantaged (7430) will include those elements created to handle special problems associated with disadvantaged students, excluding financial aid services and supplemental educational services. Physically Handicapped (7440) will contain program elements established to provide services for the physically handicapped, exclusive of health care.

92

5.0 STUDENT SERVICE PROGRAM

5.1 SOCIAL AND CULTURAL DEVELOPMENT SUBPROGRAM

```
(Program Category)
5.1.7100
          Student Development
                                                                 (Program Sector)
  5.1.7110
            Student Activities
  5.1.7120
            Cultural Events
  5.1.7130
            Student Organizations
  5.1.7140
            Recreation
  5.1.7150
            Intramural Athletics
  5.1.7160
            Reserved
                      for
                          future
                                 use
  5.1.7180
  5 1.7190
            Unassigned:
                          May be used for additional
                          program sectors related to
                          student development.
  5.1.7199
5.1.7200 Intercollegiate Athletics
  5.1.7201
            Baseball
  5.1.7202
            Basketball
  5.1.7203
            Boxing
  5.1.7204
            Diving
  5.1.7205
            Fencing
  5.1.7206
            Football
  5.1.7207
            Golf
  5.1.7208
            Gymnastics
  5.1.7209
            Ice Hockey
  5.1.7210
            Lacrosse
  5.1.7211
            Rowing
  5.1.7212
            Rugby
  5.1.7213
            Skiing
  5.1.7214
            Soccer
            Swimming
  5.1.7215
  5.1.7216
            Tennis
  5.1.7217
            Track and Field
  5.1.7218
            Wrestling
  5.1.7219
            Reserved
                      for
                          future
                                 use
  5.1.7249
  5.1.7250 Unassigned:
                          May be used for additional
                          program sectors related to
                          intercollegiate athletics.
```

ERIC
Full Text Provided by ERIC

5.1.7299

93

- 5.0 STUDENT SERVICE PROGRAM (continued)
 - 5.1 SOCIAL AND CULTURAL DEVELOPMENT SUBPROGRAM (continued)
 - 5.1.9500 Other Student Service
 - 5.1.9501 Unassigned: May be used for Student Service program elements which have been established to enhance the student's social and cultural development and are not appropriately assigned to the above program sectors.
 - 5.1.9599



5.2 SUPPLEMENTARY EDUCATIONAL SERVICE SUBPROGRAM

5.2.0000*

5.2.0100 Agriculture and Natural Resources 5.2.0200 Architecture and Environmental Design 5.2.0300 Area Studies 5.2.0400 Biological Sciences 5.2.0500 Business and Management Communications 5.2.0600 5.2.0700 Computer and Information Sciences 5.2.0800 Education Engineering
Fine and Applied Arts
Foreign Languages 5.2.0900 5.2.1000 5.2.1100 5.2.1200 Health Professions 5.2.1300 Home Economics 5.2.1400 Law 5.2.1500 Letters 5.2.1600 Library Science 5.2.1700 Mathematics Military Sciences Physical Sciences 5.2.1800 5.2.1900 5.2.2000 Psychology 5.2.2100 Public Affairs and Services Social Sciences 5.2.2200 Theology 5.2.2300 5.2.4900 Interdisciplinary Studies 5.2.5000 Business and Commerce Technologies Data Processing Technologies
Health Services and Paramedical Technologies
Mechanical and Engineering Technologies 5.2.5100 5.2.5200 5.2.5300 5.2.5400 Natural Science Technologies 5.2.5500 Public Service Related Technologies

5.2.9500 Other Student Service

5.2.9501	Unassigned:	May be used for Student Service program
•		elements which have been established to
•		provide supplementary educational services
•		and are not appropriately assigned to
		the HEGIS discipline categories and sectors
5.2.9599		as listed in Appendices I and II.

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., a central remedial education service.



5.3 COUNSELING AND CAREER GUIDANCE SUBPROGRAM

5.3.0000*

5.3.0100 Agriculture and Natural Resources 5.3.0200 Architecture and Environmental Design 5.3.0300 Area Studies 5.3.0400 Biological Sciences 5.3.0500 Business and Management 5.3.0600 Communications 5.3.0700 Computer and Information Sciences 5.3.0800 Education 5.3.0900 Engineering 5.3.1000 Fine and Applied Arts 5.3.1100 Foreign Languages 5.3.1200 Health Professions 5.3.1300 Home Economics 5.3.1400 Law 5.3.1500 Letters 5.3.1600 Library Science Mathematics 5.3.1700 5.3.1800 Military Sciences 5.3.1900 Physical Sciences 5.3.2000 Psychology 1 5.3.2100 Public Affairs and Services Social Sciences 5.3.2200 Theo logy 5.3.2300 5.3.4900 Interdisciplinary Studies Business and Commerce Technologies 5.3.5000 5.3.5100 Data Processing Technologies 5.3.5200 Health Services and Paramedical Technologies 5.3.5300 Mechanical and Engineering Technologies 5.3.5400 Natural Science Technologies 5.3.5500 Public Service Related Technologies

5.3.9500 Other Student Service

5.3.9501 Unassigned: May be used for Student Service program elements which have been established to provide counseling and career guidance services and are not appropriately assigned to the above HEGIS discipline categories.

5.3.9599

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., one central counseling bureau.



96

5.4 FINANCIAL AID SUBPROGRAM

5.4.0000*

5.4.0100 Agriculture and Natural Resources 5.4.0200 Architecture and Environmental Design Area Studies 5.4.0300 5.4.0400 Biological Sciences Business and Management 5.4.0500 5.4.0600 Communications Computer and Information Sciences 5.4.0700 5.4.0800 Education Engineering . Fine and Applied Arts 5.4.0900 5.4.1000 Foreign Languages 5.4.1100 Health Professions 5.4.1200 5.4.1300 Home Economics 5.4.1400 Law 5.4.1500 Letters 5.4.1600 Library Science 5.4.1700 Mathematics 5.4.1800 Military Sciences 5.4.1900 Physical Sciences 5.4.2000 Psychology 5.4.2100 Public Affairs and Services Social Sciences 5.4.2200 5.4.2300 Theology Interdisciplinary Studies 5.4.4900 Business and Commerce Technologies 5.4.5000 Data Processing Technologies
Health Services and Paramedical Technologies
Mechanical and Engineering Technologies 5.4.5100 5.4.5200 5.4.5300 Natural Science Technologies Public Service Related Technologies 5.4.5400 5.4.5500

5.4.9500 Other Student Service

5.4.9501 Unassigned: May be used for Student Service program elements which have been established to provide financial aid for students and are not appropriately assigned to the above HEGIS discipline categories.

5.4.9599

*Note: Use 0000 for those cases where a central unit services all disciplines, e.g., one central financial aid office.



5.5 STUDENT SUPPORT SUBPROGRAM

```
(Program Category)
5.5.7300 Supporting Service
  5.5.7310
            Food Services
                                                                (Program Sector)
  5.5.7320
            Health Services
            Housing Services
Retail Services and Concessions
  5.5.7330
  5.5.7340
  5.5.7350
            Reserved
                    for
                         future
                                use
  5.5.7380
  5.5.7390 Unassigned: May be use for additional program
                          sectors related to convenience
                          services for students.
  5.5.7399
5.5.7400 Special Student Service
  5.5.7410
            Veterans
  5.5.7420
            Foreign Students
  5.5.7430
            Disadvantaged
  5.5.7440
            Physically Handicapped
  5.5.7450
            Reserved
                     for
                          future
                                 use
  5.5.7480
  5.5.7490
            Unassigned:
                         May be used for additional program sectors
                          related to providing services to special
                          groups of students.
  5.5.7499
5.5.9500 Other Student Service
  5.5.9501
            Unassigned:
                         May be used for program elements which
                         have been established to provide student
                          services and are not appropriately assigned
                          to the above program sectors.
```

ERIC 4-2

5.5.9599

6.0 <u>Institutional Support Program</u>

The Institutional Support program consists of those activities within the institution which provide campus-wide support to the other programs. These program elements have been classified within the following seven subprograms:

- 6.1 Executive Management
- 6.2 Fiscal Operations
- 6.3 General Administrative Services
- 6.4 Logistical Services
- 6.5. Physical Plant Operations
- 6.6 Faculty and Staff Services
- 6.7 Community Relations

Excluding the Physical Plant Operations subprogram (6.5), each of the Institutional Support subprograms classifies the program elements within either the Central Operations (8100) program category, or the Functional Operations (8200) program category. The purpose of this distinction is to discriminate between those program elements which typically are not influenced by program changes, and those program elements which tend to vary as a function of staff, students, or programs. This distinction between central operation and functional operation will be useful for modeling and analysis, particularily for determining allocation procedures and developing unit cost data.

Because of the diverse nature of institutional support programs in higher education, the listing of the program sectors contains examples of the program elements which properly should be classified within the program sector. Each of the program categories within the Institutional Support



(

99

program contains a block of unassigned numbers which may be used for any additional program sectors that are appropriately classified within the program category. In addition, each subprogram contains the program category, "Other Institutional Support" (9600), to be used for program elements which exist within the subprogram, but are not appropriately assigned to the program categories listed within the subprogram. As with the other programs within the Program Classification Structure, the classification of program elements within the Institutional Support program should be based on the concept of primary intent, i.e., the primary purpose for establishing and maintaining the program element.

Executive Management (6.1) consists of all central executive-level program elements and other program elements concerned with the management and long-range planning of the entire institution, as contrasted to any one program within the institution. Included within this subprogram are such central operations as legal services and executive direction, which consists of the governing board, the chief executive officer, and the senior executive officers (e.g., the vice-presidents). Planning and Programming (8120) are those central operations related to the management and planning for the institution, including analytical studies, institutional research, etc.

<u>Fiscal Operations</u> (6.2) includes those central operations related to fiscal control, investments, and functional program elements related to the fiscal operations of the institution.

ERIC Full Text Provided by ERIC

General Administrative Services (6.3) includes program elements which provide central administrative services to the Institutional Support program, e.g., administrative data processing, and functional program elements related to student records and staff personnel.

Logistical Services (6.4) contains program elements which provide procurement services, supply and maintenance of provisions, and the orderly movement of support materials for the campus operation. Included within Logistical Services are central program elements related to the environmental health and safety of the staff and students.

Physical Plant Operations (6.5) are those program elements established to provide services related to the campus grounds and facilities. The Maintenance Operations (8300) program category includes program elements related to maintaining the existing grounds and facilities. Included within the Maintenance Operations program category are those program elements which have been established to provide institutionally operated utility services, e.g., a campus heating plant. The Plant Expansion and Modification (8400) program category contains program elements which represent institutional resources committed to creating new facilities or modifying existing facilities and grounds. Included within this program category are the program elements established by the institution to assist in expansion and modification functions, e.g., campus architects and engineers, construction office, etc.

Faculty and Staff Services (6.6) includes the program elements established to provide support services for the faculty and staff. Coding for the program sectors within the subprogram is based on the codes used

ERIC Full Text Provided by ERIC

in the Student Support subprogram (5.5), and includes those program elements which meet the test that the primary intent for their establishment is to provide support and convenience services to the faculty and staff. As noted previously, in those instances where the primary intent is not obvious, e.g., a central cafeteria, the program element should be classified within the Student Support subprogram.

Community Relations (6.7) are those program elements which have been established to maintain relationships with the general community, the institution's alumni, or other constituents; and activities related to development and fund raising. Excluded from this subprogram are the program elements established primarily to provide public service to the community.

102

6.0 INSTITUTIONAL SUPPORT PROGRAM

6.1 EXECUTIVE MANAGEMENT SUBPROGRAM

6.1.8100 Central Operations

(Program Category)

6.1.8110 Executive Direction
e.g., Governing Board
Chief Executive
Senior Executive Officers

(Program Sector) (Program Element)

6.1.8120 Planning and Programming
e.g., Analytical Studies
Budget Planning
Institutional Research
Physical Planning
Planning Committees
Policy Committees
Academic Senate

6.1.8130 Legal Services
e.g., Attorney
General Counsel
Patent Counsel

6.1.8190 Unassigned: May be used for additional program sectors related to central operations.

5.1.8199

6.1.9600 Other Institutional Support

6.1.960! Unassigned: May be used for Institutional Support program elements which have been established to provide executive management services and are not appropriately assigned to the above program sectors.



6.0 INSTITUTIONAL SUPPORT PROGRAM (continued)

6.2 FISCAL OPERATIONS SUBPROGRAM

6.2.8100 <u>Central Operations</u>

(Program Category)

6.2.8140 Fiscal Control
e.g., Audit
Budget Control
Controller

(Program Sector) (Program Element)

6.2.8150 Investments

e.g., Endowment Management Investment Office

6.2.8190 Unassigned: May be used for additional program sectors related to

central operations.

6.2.8199

6.2.8200 Functional Operations

6.2.8210 Fiscal Operations
e.g., Accounting
Bursar
Cashier
Contracts & Grants
Payroll

6.2.8290 Unassigned: May be used for additional program sectors related to functional operations.

6.2.8299

6.2.9600 Other Institutional Support

6.2.9601 Unassigned: May be used for Institutional Support program elements which have been established to provide fiscal services and are not appropriately assigned to the above program sectors.

6.2.9699



6.0 INSTITUTIONAL SUPPORT PROGRAM (continued)

6.3 GENERAL ADMINISTRATIVE SERVICES SUBPROGRAM

5.3.8100 Central Operations

(Program Category)

6.3.8160 Administrative Support

e.g., Administrative Data Processing Management Systems Central Files

(Program Sector) (Program Element)

6.3.8165 Space Management

e.g., Room Scheduling Space Allocation

6.3.8190 Unassigned: May be used for additional

program sectors related to central operations.

6.3.8199

6.3.8200 Functional Operations

6.3.8220 Student Admissions & Records

e.g., Undergraduate Admissions Graduate Admissions Foreign Admissions and Evaluation Transfer Evaluations Registration Records Transcripts Degree Certification

> **Publications** Statistics

6.3.8230 Employee Personnel & Records

e.g., Personnel Insurance Retirement Faculty Records Recruitment

6.3.8290 Unassigned:

May be used for additional program sectors related to

functional operations.

6.3.8299

6.3.9600 Other Institutional Support

6.3.9601 Unassigned: May be used for Institutional Support program elements which have been

established to provide general administrative services and are not appropriately assigned to the above

program sectors.

6.3.9699



6.0 INSTITUTIONAL SUPPORT PROGRAM (continued)

6.4 LOGISTICAL SERVICES SUBPROGRAM

6.4.8100 Central Operations

(Program Category)

6.4.8170 Environmental Health & Safety e.g., Police Campus Security Fire Protection Environmental Safety

(Program Sector) (Program Element)

6.4.8190 Unassigned: May be used for additional program sectors related to central operations.

6.4.8199

6.4.8200 Functional Operations

6.4.8240 Purchasing and Materials
e.g., Purchasing
Receiving/Shipping
Warehousing & Stores
Equipment Pool
Inventory
Property Management

6.4.8250 Communication & Services
e.g., Mail & Distribution
Telephone & Telegraph
Printing
Reproduction

6.4.8260 Transportation Services
e.g., Airport
Campus Transportation
Garage
Motor Pool
Parking

6.4.8290 Unassigned: May be used for additional program sectors related to functional operations.

6.4.8299

6.4.9600 Other Institutional Support

6.4.9601 Unassigned: May be used for Institutional Support program elements which have been established to provide logistical services and are not appropriately assigned to the above program sectors.

6.4.9699

ERIC 4-28

6.0 INSTITUTIONAL SUPPORT PROGRAM (continued) 6.5 PHYSICAL PLANT OPERATIONS SUBPROGRAM (Program Category) 6.5.8300 Maintenance Operations 6.5.8310 Utility Plants (Program Sector) e.g., Electricity (Program Element) Heating 6.5.8320 Building Maintenance 6.5.8330 Grounds Maintenance Custodial Services 6.5.8340 6.5.8350 Reserved for future use 6.5.8380 6.5.8390 Unassigned: May be used for additional program sectors related to maintenance operations. 6.5.8399 6.5.8400 Plant Expansion & Modification 6.5.8410 New Building Construction 6.5.8420 Facility Remodeling Landscaping & Grounds Modification 6.5.8430 6.5.8440 Reserved future use 6.5.8480 6.5.8490 Unassigned: May be used for additional program sectors related to plant expansion and modification. 6.5.8499 6.5.9600 Other Institutional Support 6.5.9601 Unassigned: May be used for Institutional Support program elements which have been established to provide support for the campus physical plant and are not appropriately assigned to the



6.5.9699

above program sectors.

6.0 INSTITUTIONAL SUPPORT PROGRAM (continued)

6.6 FACULTY & STAFF SERVICES SUBPROGRAM

6.6.7300 <u>S</u>	upporting Ser	<u>vice</u> (Program Category)
	Food Service Health Servi Housing Serv Retail Servi Reserved for	ces ices ces & Concessions	(Program Sector)
6.6.7380 6.6.7390 6.6.7399	Unassigned:	May be used for additional program s related to convenience services for faculty and staff of the institution	the

6.6.9600 Other Institutional Support

6.6.9601	Unassigned:	May be used for Institutional Support
•		program elements which have been
•		established to provide services for
•	•	faculty and staff and are not appropriately
6.6.9699		assigned to the above program sectors.



6.0 INSTITUTIONAL SUPPORT PROGRAM (continued)

6.7 COMMUNITY RELATIONS SUBPROGRAM

6.7.8100 Central Operations

(Program Category)

(Program Sector)

(Program Element)

6.7.8175 Alumni Relations

e.g., Alumni Office

Alumni Publications

Alumni Club

6.7.8180 Community Relations

e.g., Commencement

Community Affairs

News Service

Public Relations

Public Information School Relations

State Relations

Federal Relations

6.7.8185 Development

e.g., Campus Foundation

Fund Raising

6.7.8190 Unassigned: May be used for additional

program sectors related to

central operations.

6.7.8199

6.7.9600 Other Institutional Support

6.7.9601 Unassigned: May be used for Institutional Support

program elements which have been established

to maintain relations with the institution's

constituency.

6.7.9699



7.0 Independent Operations Program

The Independent Operations program provides the capability to classify those program elements which are independent of, or unrelated to, the primary missions of the institution. The Independent Operations program consists of two subprograms.

- 7.1 Institutional Operations
- 7.2 Outside Agencies

Institutional Operations (7.1) are those program elements which represent operations owned or controlled by the institution and are foreign to, or independent of, the institution's mission, e.g., the operation of commercial rental property for income. The program sector codes within the Institutional Operations program category (9700) are unassigned to permit the classification of the various unique institutional assets or program elements in a manner consistent with the institutional structure.

Outside Agencies (7.2) are those program elements which are controlled or operated by outside agencies, but are housed or otherwise supported by the institution. An example would be the Western Interstate Commission for Higher Education, which has its offices on the campus of the University of Colorado. Coding within the Outside Agencies program category (9800) is unassigned to permit institutional classification of the various resources (generally, facilities and related services) committed to such external program elements.



7.0 INDEPENDENT OPERATIONS PROGRAM

7.1 INSTITUTIONAL OPERATIONS SUBPROGRAM

7.1.9700 <u>Institutional Operations</u>

(Program Category)

(Program Sector)

7.1.9701 Unassigned: May be used for Independent
 Operations program elements which are owned or controlled by

the institution.

7.1.9799

7.2 OUTSIDE AGENCIES SUBPROGRAM

7.2.9800 Outside Agencies

7.2.9801 Unassigned: May be used for identifying external program elements which are housed or otherwise

supported by the institution.

7.2.9899



SECTION V Program Classification Structure

Glossary of Program Classification Structure Terms

Term	PCS Code	Page Ref.	Description
Academic Support Program	4.0	1-32 4-1	A support program. Those program elements which directly assist the academic functions of the institution.
Agriculture Extension Service	3.5	3-16	A subprogram within the public service program. Those program elements utilized in support of the normally autonomous and self-contained subsystem of organized agriculture extension.
Analytical Model	n/a	1-8	A mathematical model in which all functional relationships can be expressed in closed form and the parameters fixed in advance. ⁴³
Ancillary Support	4.5	1-33 4-4	A subprogram within the academic support program. Those program elements which provide support services to the primary programs and are not appropriately classified within the various academic support subprograms.
Audio/Visual Services	4.3	4-3	A subprogram within the academic support program. Those program elements associated with providing audio and/or visual support services.
Campus	n/a	2-1 2-3	The highest level of aggregation in the Program Classification Structure.



Term	PCS Code	Page Ref.	Description
Campus Community Service	3.4	3-16	A subprogram within the public service program. Those program elements which have been established to provide general public services to the community at large or special sectors within the community. Organized extension community service (PCS Code 3.3) and all instructional services are excluded.
Central Operations	8100	4-21	A program category. Those program elements in the institutional support program (excluding physical plant operations) that typically are not influenced by program changes.
Common Interest Groups	7x	2-7 3-15	A subsector within the public service program. A target clientele which is a specific profession or special groups, e.g., continuing medical education, C.P.A. review, etc.
Community Relations .	6.7	4-24	A subprogram within the institutional support program. Those program elements which have been established to maintain relationships with the general community, institution alumni, or other constituents; and activities related to development and fund raising.
Community Sectors	8x	2-7 3-15	A subsector within the public service program. A target clientele which is a well-defined geographic or political subdivision such as particular socio-economic classes, specific neighborhoods or communities, etc.
Component Measures	n/a	2-3 2-8	Component measures, although not presently defined, are the indicators of resource utilization and output associated with the activities of the program element. Component measures will reflect quantitative measures of expenditures, revenues, resources, activities and outputs.

Term	PCS Code	Page Ref.	Description
Computing Support	4.4	1-32 4-4	A subprogram within the academic support program. Those program elements which have been established to provide computing support. Excludes administrative data processing.
Cost/Benefit Analysis	n/a	1-6	An analytical approach to solving problems of choice requiring the definition of objectives, identification of alternative ways of achieving each objective, and the determination of which alternative yields the maximum benefit for a given cost or yields a given benefit at the lowest cost. ⁴⁴
Counseling and Career Guidance	5.3	4-12	A subprogram within the student service program. Those program elements established to provide counseling services, career guidance, and placement services for the student body.
Course Livel	n/a	2-6	Course level refers to the level of offering for instructional courses (normally associated with student level) but may be used in other programs to differentiate various student groups.
Crosswalk	n/a	1-25 A-31	The expression of the relationship between the program structure and the accounting structure.44
Cultural Events	7120	4-11	A program sector. Those program elements outside of the curriculum program which have been established to expand the educational experience, e.g., convocations, special conferences, lectures, etc.
Degree Program	n/a	1-16	The mix of instructional offerings in various disciplines which comprise the curriculum for a specific academic degree. See Field of Study.



Term	PCS Code	Page Ref.	Description
Departmental Continuing Education	3.1	3-16	A subprogram within the public service program. Those program elements that are managed within the academic departments to provide non-credit instructional services to members of the community other than matriculated students.
Disadvantaged	7430	4-14	A program sector. Those program elements created to handle special problems associated with disadvantaged students, excluding financial aid services and supplemental educational services.
Discipline Instruction	n/a	1-16	The aggregate of instructional offerings in a specific academic discipline, e.g., all mathematics instruction.
Executive Management	6.1	4-22	A subprogram within the institutional support program. Those central executive-level program elements and other program elements concerned with the management and long-range planning of the entire institution, as contrasted to any one program within the institution.
Experimental Instruction	1.4	3-3	A subprogram within the instruction program. Those temporary instructional program elements which are experimental or innovative and represent a marked departure from the standard curriculum.
Extension Instruction (for credit)	1.3	3-3	A subprogram within the instruction program. Those instructional program elements that are managed by an extension division (or similar agency within the institution) which are applicable toward a formal degree or certificate.
Faculty and Staff Services	6.6	4-23	A subprogram within the institutional support program. The program elements established to provide support services for the faculty and staff.

Term	PCS Code	Page Ref.	Description
Field of Study	n/a	1-14	Field of Study refers to the student major area of study. May be used to refer to the mix of courses which comprise a particular degree. See Degree Program.
Financial Aid	5.4	4-13	A subprogram within the student service program. The program elements established to provide financial aid and assistance to students.
Fiscal Operations	6.2	4-22	A subprogram within the institutional support program. Those central operations related to fiscal control and investments and functional program elements related to the fiscal operations of the institution.
Food Services	7310	4-13	A program sector. Those program elements related to the dispensing of food, e.g., cafeteria, snack bar, food and drink vending machine operations, dormitory dining halls, etc.
Foreign Students	7420	4-14	A program sector. Those program elements established within the institution to provide special services to foreign students, e.g., foreign student office, but excluding special, remedial, or supplemental educational services.
Functional Operations	8200	4-21	A program category. Those program elements in the institutional support program (excluding physical plant operations) that tend to vary as a function of staff, students, or programs.
General Administrative Services	6.3	4-23	A subprogram within the institutional support program. The program elements which provide administrative services, e.g., administrative data processing, student records, personnel.
Health Services	7320	4-13	A program sector. Those program elements established to provide medical services including dental and psychiatric care.



Term	PCS Code	Page Ref.	Description
HEGIS	n/a	1-15	An abbreviation for the Higher Education General Information Survey conducted annually by the National Center for Educational Statistics.
Housing Services	7330	4-14	A program sector. Those program elements associated with the dormitories and housing.
Independent Operations Program	7.0	1-34 4-32	A support program. Those program elements which are independent of, or unrelated to, the basic missions of the institution.
Individual or Project Research	2.2	3-9	A subprogram within the organized research program. Those research program elements which are normally managed within the academic departments, and which have been created as a result of a contract, grant, or specific allocation of resources to conduct a study or investigation of a specified scope.
Individuaïs	6x	2-7 3-15	A subsector within the public service program. A target clientele consisting of individuals within the community at large, as contrasted to specific interest groups or community sectors.
Induced Course-Load Matrix (ICLM)	n/a	1-19	A matrix which describes the distribution of the average load placed on the instruction program by students pursuing various degrees. The matrix is usually four-dimensional: Field of Study by Student Level and Discipline by Course Level.
Institutes and Research Centers	2.1	3-9	A subprogram within the organized research program. Those research-related program elements which are part of a formal research organization created to manage a number of research efforts.
Institutional Operations	7.1	4-32	A subprogram within the independent operations program. Those program elements which represent operations owned or controlled by the institution and which are foreign to, or independent of, the institution's mission.

Term	PCS Code	Page Ref.	Description
Institutional Support Program	7.0	1-34 4-21	A support program consisting of those activities within the institution which provide campus-wide support to the other programs.
Instruction Frogram	1.0	1-30 3-1	A primary program consisting of all formal instructional activities in which a student engages to earn credit toward a degree or certificate.
Intercollegiate Athletics	7200	4-11	A program category. Those program elements established to support intercollegiate sports events.
Intramural Athletics	7150	4-11	A program sector. Those program elements established to support an intramural program which involves formal participation by members of the student body.
Libraries	4.1	4-2	A subprogram within the academic support program. Those activities which directly support the operation of a cataloged or otherwise classified collection of published materials.
Logistical Services	6.4	4-23	A subprogram within the institutional support program. Those program elements which provide procurement services, supply and maintenance of provisions, and orderly movement of support materials for the campus operation including those central program elements related to the environment health and safety of the campus community.
Maintenance Operations	8300	4-23	A program category. Those program elements which have been established to provide institutionally operated utility services, e.g., a campus heating plant.
Museums and Galleries	4.2	4-2	A subprogram within the academic support program. Those program elements established to provide services related to the collection, preservation and exhibition of historical materials, art objects, scientific displays, etc.



Term	PCS Code	Page Ref.	Description
Objectives	n/a	1-2	Goals or results that the decision- maker seeks to attain; hence, the end product or output of a program. 44
Other Academic Support	9400	4-2	A miscellaneous program category to be used for academic support program elements which are not central to the subprogram nor appropriately assigned to the HEGIS discipline categories.
Other Institutional Support	9600	4-22	A miscellaneous program category to be used for institutional support program elements which are not appropriately assigned to the program categories listed within the subprogram.
Other Instruction	9100	3-2	A miscellaneous program category to be used for instruction program elements which do not fit within the specifications of the HEGIS disciplines.
Other Organized Research	9200	3-8	A miscellaneous program category to be used for research program elements that are not appropriately identified with the HEGIS discipline categories.
Other Public Service	9300	3-15	A miscellaneous program category to be used for public service program elements which are not appropriately identified with the HEGIS discipline categories or sectors.
Other Student Service	9500	4-10	A miscellaneous program category to be used for student service program elements which do not fit the specifications of program categories within the subprogram.
Organized Extension Community Service	3.3	3-16	A subprogram within the public service program. Those program elements which have been established within the formal extension organization to provide general community services. Excludes instructional activities.



Term	PCS Code	Page Ref.	Description
Organized Extension Continuing Education	3.2	3-16	A subprogram within the public service program. Those program elements within the formal extension organization which have been established to provide continuing educational services to members of the community other than matriculated students.
Organized Research Program	2.0	1-30 3-8	A primary program consisting of those research-related program elements established within the institution under the terms of agreement with agencies external to the institution or separately budgeted and conducted with internal funds.
Outside Agencies	7.1	4-32	A subprogram within the independent operations program. Those program elements which are controlled or operated by outside agencies, but are housed or otherwise supported by the institution.
PCS	n/a	·	An abbreviation of Program Classi-fication Structure.
Physical Plant Operations	6.5	4-23	A subprogram within the institutional support program. Those program elements established to provide services related to the campus grounds and facilities.
Physically Handicapped	7440	4-1 4	A program sector. Those program elements established to provide services for the physically handicapped exclusive of health care.
Planning and Programming	8120	4-22	A program sector. Those program elements within central operations that are related to management and planning for the institution, including analytical studies and institutional research.



Term	PCS Code	Page Ref.	Description
Planning, Programming, and Budgeting System (PPBS)	n/a	1-5	A management system involving the selection or identification of the overall, long-range objectives of the organization and the systematic analysis of various courses of action in terms of relative costs and benefits (Planning); deciding on specific courses of action to be followed in carrying out planning decisions (Programming); and translating planning and programming decisions into specific financial plans (Budgeting).44
Plant Expansion and Modification	8400	4-23	A program category. Those program elements which represent institutional resources committed to creating new facilities or modifying existing facilities or grounds.
PPBS	n/a	1-5	An abbreviation for Planning, Programming, and Budgeting System.
Primary Programs	1.0 2.0 3.0	1-28 2-4 3-1	A stratum of the Program Classification Structure hierarchy. The primary programs contain the activities directly related to the accomplishment of the missions of higher education.
Program	n/a	2-1 2-4	A stratum in the PCS hierarchy. The major institutional missions and related support objectives. The PCS is based on seven programs.
Program Budgeting	n/a	1-4	A resource allocation technique which facilitates the organization and identification of the activities of an institution in terms of its objectives, displays the cost of these activities over an extended time frame, and relates these activities and their costs to the outputs of the institution's programs. The budgeting aspect of a Planning Programming and Budgeting System.

	Term	PCS Code	Page Ref.	Description
Program	Category	n/a	2-1 2-5	A stratum of the Program Classification Structure hierarchy. Program category is an implicitly defined aggregation of program sectors which may be used to sum related program elements across program lines.
Program	Element	n/a	1-27 2-3 2-7	The lowest level of aggregation in the Program Classification Structure hierarchy. The program element represents the smallest unique collection of resources that are output producing activities, i.e., a collection of resources, technologies, and policies which, through their integrated operation, produce goods or services that are of value to the organization because they contribute to the achievement of an institutional objective.
Program	Sector	n/a	2-1 2-5	A collection of homogeneous elements; a subdivision of the program which classifies program elements relative to their objectives.
Program	Structure	n/a	2-1	A classification system that categorizes the activities of an organization according to their relationship to the organization's objectives.
Program	Subsector	n/a	2-3 2-6	A stratum of the Program Classification Structure heirarchy. Subsector refers to a sub-grouping of program elements, primarily intended to identify the level of course for instruction program elements, but may be used in other programs at the option of the institution.
Public S Pro	Service gram	3.0	1-31 3-13	A primary program. Those program elements within the institution which produce outputs directed toward the benefit of the community or individuals residing within the geographic service area of the institution.



Term	PCS Code	Page Ref.	Description
Recreation	7140	4-11	A program sector. Those program elements established to provide recreational opportunities for the general student body, e.g., swimming pool, golf course, bowling alley, etc.
Regular Instruction	1.1	3-2	A subprogram within the instruction program. Those instructional program elements operating during the standard academic term as defined by the institutions and which are part of a formal degree or certificate cirriculum.
Retail Services and Concessions	7340	4-14	A program sector. Those program elements created to provide retail services in areas such as the book store, barber shop, etc.
RRPM	n/a	1-10	An abbreviation for Resource Requirements Prediction Model. RRPM is a generalized analytical mod 1 designed to estimate the resource requirements associated with operating an institution of higher education over a specified period of time.
Social and Cultural Development	5.1	4-10	A subprogram within the student service program. Those program elements which have been established to provide for the student's social and cultural development outside of the degree curriculum.
Special Session Instruction	1.2	3-3	A subprogram within the instruction program. Those instructional program elements ich earn credit toward a formal degree or certificate and are offered during a period that is not common with the institution's regular term.
Special Student Service	7400	4-14	A program category. Those program elements which have 'en established to provide services to special groups of students, e.g., veterans.
Student Activities	7110	4-11	A program sector. Those program elements which are primarily supported and controlled by the student body, including student associations, student newspaper, dances, affairs, etc.



Term	PCS Code	Page Ref.	Description
Student Development	7100	4-11	A program category. Those program elements established to provide for the social and physical development of the student outside the context of the formal academic program.
Student Organizations	7130	4-11	A program sector. Those program elements established to support the various student clubs, fraternities, and special interest groups.
Student Service Program	5.0	1-33 4-10	A support program. Those program elements related to the institution's student body, excluding the degreerelated curriculum and student records.
Student Support	5.5	4-13	A subprogram within the student service program. Those program elements established within the institution to provide convenience services to the student body or services to special student groups.
Subprogram	n/a	2-1 2-4	A stratum of the Program Classification Structure hierarchy. A subprogram is an aggregation level that structures program sectors into subsets of the major missions of the institution.
Supplementary Educa- tional Service	5.2	4-12	A subprogram within the student service program. Those program elements which have been established to provide supplemental instruction to matriculated students outside of the normal academic program.
Suppport Programs	4.0 5.0 6.0 7.0	1-28 2-4 4-1	A stratum of the Program Classification Structure hierarchy. Support programs contain those activities which are necessary or vital for the successful operation of the primary programs.
Supporting Service	7300	4-13	A program category. Those program elements related to convenience services provided by the institution.



Appendix I Program Classification Structure Program Categories

HEGIS Discipline Categories Additional PCS Program Categories 6600 AGRICULTURE AND RELATED INDUSTRIES 0100 AGRICULTURE AND NATURAL RESOURCES 0200 ARCHITECTURE AND ENVIRONMENTAL DESIGN 6700 SOCIAL AND ECONOMIC DEVELOPMENT 0300 AREA STUDIES 6800 QUALITY OF LIVING 0400 BIOLOGICAL SCIENCES 6900 INTERNATIONAL EXTENSION 0500 BUSINESS AND MANAGEMENT 7000 (Seserved) 0600 COMMUNICATIONS 7100 STUDENT DEVELOPMENT 0700 COMPUTER AND INFORMATION SCIENCES 7200 INTERCOLLEGIATE ATHLETICS 7300 SUPPORTING SERVICES 0800 EDUCATION 0900 ENGINEERING 7400 SPECIAL STUDENT SERVICES 1000 FINE AND APPLIED ARTS 7500 Unassigned 1100 FOREIGN LANGUAGES 7600 Unassigned 1200 HEALTH PROFESSIONS 7700 Unassigned 1300 HOME ECONOMICS 7800 Unassigned 1400 LAW 7900 Unassigned 1500 LETTERS 8000 (Reserved) 1600 LIBRARY SCIENCE 8100 CENTRAL OPERATIONS 1700 MATHEMATICS 8200 FUNCTIONAL OPERATIONS 1800 MILITARY SCIENCES 8300 MAINTENANCE OPERATIONS 1900 PHYSICAL SCIENCES 8400 PLANT EXPANSION AND MODIFICATION 2000 PSYCHOLOGY 8500 Unassigned 2100 PUBLIC AFFAIRS AND SERVICES 8600 Unassigned 2200 SOCIAL SCIENCES 8700 Unassigned 2300 THEOLOGY 8800 Unassigned 4900 INTERDISCIPLINARY STUDIES 8900 Unassigned BUSINESS AND COMMERCE TECHNOLOGIES 9000 (Reserved) 5100 DATA PROCESSING TECHNOLOGIES 9100 OTHER INSTRUCTION HEALTH SERVICES AND PARAMEDICAL 9200 OTHER ORGANIZED RESEARCH 5200 TECHNOLOGIES 9300 OTHER PUBLIC SERVICE MECHANICAL AND ENGINEERING TECHNOLOGIES 9400 OTHER ACADEMIC SUPPORT NATURAL SCIENCE TECHNOLOGIES 5400 9500 OTHER STUDENT SERVICE 5500 PUBLIC SERVICE RELATED TECHNOLOGIES 9600 OTHER INSTITUTIONAL SUPPORT 5600 5,00 INSTITUTIONAL OPERATIONS thru (Reserved) 9800 OUTSIDE AGENCIES 6500 9900 INSTITUTION UNIQUE



Program Classification Structure

APPENDIX II

HEGIS Discipline Sectors by Discipline Category

Reprinted from "A Taxonomy of Instructional Programs for Higher Education" to be published by the National Center for Educational Statistics.



A TAXONOMY OF INSTRUCTIONAL PROGRAMS IN HIGHER EDUCATION SECTION I: CONVENTIONAL ACADEMIC SUBDIVISIONS OF KNOWLEDGE AND TRAINING

0100 AGRICULTUILE and NATURAL RESOURCES Includes those subject field designations associated with the production and management of food, natural fiber, plant, forest and wildlife resources. 0101 Agriculture, General Agronomy, Field Crops, and Crop Management 0102 0103 Soils Science (Management and Conservation) 0104 Animal Science (Husbandry) 0105 Dairy Science (Husbandry) 0106 Poultry Science 0107 Fish, Game, and Wildlife Management 0108 Horticulture (Fruit and Vegetable Production) 0109 Ornamental Horticulture (Floriculture, Nursery Science) 0110 Agricultural and Farm Management 0111 Agricultural Economics 0112 Agricultural Business 0113 Food Sciance and Technology 0114 Forestry 0115 Natural Resources Management Agriculture and Forestry Technologies (Baccalaureate and higher programs) 0117 Range Management 0199 Other, Specify 0200 ARCHITECTURE AND ENVIRONMENTAL DESIGN Includes those subject field designations associated with training for a profession in designing buildings, communities, parks, and other man-made aspects of the physio-social environment. 0201 Environmental Design, General 0202 Architecture

0300 AREA STUDIES

0203

0204

0205

0206

0299

Includes those subject field designations associated with programs designed to provide an in-depth study of a culture indigenous to a specific geographic region.

0301 Asian Studies, General

Interior Design

Other, Specify

Landscape Architecture

City, Community, and Regional Planning

Urban Architecture

- 0302 East Asian Studies
- 6303 South Asian (India, etc.) Studies
- 0304 Southeast Asian Studies
- 0305 African Studies
- 0306 Islamic Studies
- 0307 Russian and Slavic Studies
- 0308 Latin American Studies



127

```
0309 Middle Eastern Studies
0310 European Studies, General
0311 Eastern European Studies
0312 West European Studies
0313 American Studies
0314 Pacific Area Studies
0399 Other, Specify
```

C400 BIOLOGICAL SCIENCES

Includes those subject field designations associated with the science of life or living matter in all its forms and phenomena especially with regard to the origin, growth, reproduction, and structure of life forms.

```
0401
        Biology, General
0402
        Botany, General
0403
        Bacteriology
0404
        Plant Pathology
0405
        Plant Pharmacology
0406
        Plant Physiology
0407
        Zoology, General
0408
        Pathology, Human and Animal
0409
        Pharmacology, Human and Animal
0410
        Physiology, Human and Animal
0411
        Microbiology
0412
        Anatomy
0413
        Histology
0414
        Biochemistry
0415
        Biophysics
0416
        Molecular Biology
0417
        Cell Biology (cytology, cell physiology)
0418
        Marine Biology
0419
        Biometrics and Bio-statistics
0420
        Ecology
0421
        Entomology
0422
        Genetics
0423
        Radiobiology
0424
        Nutrition, Scientific
            (exclude nutrition in home economics and dietetics)
0425
        Neurosciences
0426
        Toxicology
0427
        Embryology
0499
        Other, Specify
```

0500 BUSINESS AND MANAGEMENT

Includes those subject field designations related to the organization, operation, administration, and control of private and public organizations.

0501 Bu:	siness and	Commerce,	General
----------	------------	-----------	---------

0502 Accounting

0503 Business Statistics 0504 Banking and Finance



0505	Investments and Securities
0506	Business Management and Administration
0507	Operations Research
0508	Hotel and Restaurant Management
0509	Marketing and Purchasing
0510	Transportation and Public Utilities
0511	Real Estate
0512	Insurance
0513	International Business
0514	Secretarial Studies (Baccalaureate and higher programs)
0515	Personnel Management
0516	Labor and Industrial Relations
0517	Business Economics
0599	Other, Specify

0600 COMMUNICATIONS

0605

Includes those subject field designations related to collection, preparation, and presentation of ideas and information intended for popular consumption through mass media.

0601	Communications, General
0602	Journalism (printed media)
0603	Radio/TV
0604	Advertising

Communication Media (use of videotape, film, etc., oriented specifically toward radio/TV)

0699 Other, Specify

0700 COMPUTER and INFORMATION SCIENCES

Includes those subject field designations associated with the design, development, and application of computer capabilities to data storage and manipulation and related computational procedures.

0701 Computer and Information Sciences, General

0702 Information Sciences and Systems

0703 Data Processing 0704 Computer Programming 0705 Systems Analysis

0705 Systems Analysis 0799 Other, Specify

0800 EDUCATION

Includes those subject field designations related to administration and control of educational organizations and institutions and subjects related to instruction and services both within and outside of such formal organizations.

0801 Education, General

0802 Elementary Education, General

0803 Secondary Education, General

0804 Junior High School Education

0805 Higher Education, General

0806 Junior and Community College Education



0807 Adult and Continuing Education 0808 Special Education, General Administration of Special Education 0809 Education of the Mentally Retarded 0810 0811 Education of the Gifted 0812 Education of the Deaf 0813 Education of the Culturally Disadvantaged Education of the Visually Handicapped 0314 0815 Speech Correction 0816 Education of the Emotionally Disturbed 0817 Remedial Education 0818 Special Learning Disabilities Education of the Physically Handicapped 0819 **0820** Education of the Multiple Handicapped 0821 Social Foundations (History and Philosophy of Education) 0822 Educational Psychology (include Learning Theory) 0823 Pre-Elementary Education (Kindergarten) 0824 Educational Statistics and Research 0825 Educational Testing, Evaluation, and Measurement 0826 Student Personnel (Counseling and Guidance) 0827 Educational Administration 0828 Educational Supervision 0829 Curriculum and Instruction 0830 Reading Education (Methodology and Theory) 0831 Art Education (Methodology and Theory) 0832 Music Education (Methodology and Theory) 0833 Mathematics Education (Methodology and Theory) C834 Science Education (Methodology and Theory) 0835 Physical Education 0836 Driver and Safety Education 0837 Health Education (include Family Life Education) 0838 Business, Commerce, and Distributive Education Industrial Arts, Vocational and Technical Education 0839 0899 Other, Specify

0900 ENGINEERING

Includes those subject field designations associated with the practical application of basic scientific knowledge to the design, production, and operation of systems intended to facilitate man's control and use of his natural environment.

0901	Engineering, General
0902	Aerospace, Aeronautical and Astronautical Engineering
0903	Agricultural Engineering
0904	Architectural Engineering
0905	Bioengineering and Biomedical Engineering
0906	Chemical Engineering (include Petroleum Refining)
0907	Petroleum Engineering (exclude Petroleum Refining)
0908	Civil, Construction, and Transportation Engineering
0909	Electrical, Electronics, and Communications Engineerin
0910	Mechanical Engineering
0911	Geological Engineering
0912	Geophysica; Engineering



```
0913
        Industrial and Management Engineering
0914
        Metallurgical Engineering
0915
        Materials Engineering
0916
        Ceramic Engineering
0917
        Textile Engineering
0918
        Mining and Mineral Engineering
0919
        Engineering Physics
0920
        Nuclear Engineering
0921
        Engineering Mechanics
0922
        Environmental and Sanitary Engineering
0923
        Naval Architecture and Marine Engineering
0924
        Ocean Engineering
0925
        Engineering Technologies (Baccalaureate and higher programs)
0999
        Other, Specify
```

1000 FINE and APPLIED ARTS

Includes those subject field designations associated with the creation and appreciation of the diverse modes of communicating ideas and emotions by means of stylized, visual, and non-visual representations and symbols.

```
1001
        Fine Arts, General
1002
        Art (Painting, Drawing, Sculpture)
1003
        Art History and Appreciation
1004
        Music (Performing, Composition, Theory)
1005
        Music (Liberal Arts Program)
1006
        Music History and Appreciation (Musicology)
1007
        Oramatic Arts
1008
        0ance
1009
        Applied Oesign
            (Ceramics, Weaving, Textile Design, Fashion Design, Jewelry, Metalsmithing, Interior Decoration,
             Commerical Art)
1010
        Cinematography
1011
        Photography
1099
        Other, Specify
```

1100 FOREIGN LANGUAGES

Includes those subject field designations related to mastery of a language other than English or related to the study of a foreign culture through exploration of the literature of that culture as expressed in the language of that culture.

1101 Foreign Languages, General
(includes those who have concentrated on more
than one foreign language without giving major
emphasis to any one language)

1102 French 1103 German 1104 Italian 1105 Spanish 1106 Russian 1107 Chinese 1108 Japanese 1109 Latin 1110 Greek, classical



131

1113 Indian (Asiatic) 1114 Scandinavian Languages Slavic Languages (other than Russian) 1115 African Languages (non-Semitic) 1116 1199 Other, Specify 1200 HEALTH PROFESSIONS Includes those subject field designations associated with the maintenance and restoration of physical and mental well-being. 1201 Health Professions, General 1202 Hospital and Health Care Administration 1203 Nursing (Baccalaureate and higher programs) Dentistry, D.D.S. or D.M.D. Degree 1204 Dental Specialties 1205 (work beyond first professional degree, D.D.S. or D.M.D.) 1206 Medicine, M.D. Degree 1207 Medical Specialties (work beyond first professional degree, M.D.) 1208 Occupational Therapy 1209 Op.tometry 1210 Osteopathic Medicine, D.O. Degree 1211 Pharmacy 1212 Physical Therapy 1213 Dental Hygiene (Baccalaureate and higher programs) 1214 Public Health 1215 Medical Record Librarianship 1216 Podiatry (Pod.D. or D. P.) or Podiatric Medicine (D.P.M.) 1217 Biomedical Communication 1218 Veterinary Medicine, (D.V.M. Degree) 1219 Veterinary Medicine Specialties (work beyond first professional degree, D.V.M.) 1220 Speech Pathology and Audiology 1221 Chiropractic Clinical Social Work, (Medica! and Psychiatric and Specialized Rehabilitation Services) 1222 1223 Medical Laboratory Technologies (Baccalaureate and higher programs)

1300 HOME ECONOMICS

1224

1225

1299

1111

1112

Hebrew and Semitic

Arabic

Includes those subject field designations associated with the theory and practice of family and home care including the science of foods, home decoration and management, and child care.

Dental Technologies (Baccalaureate and higher programs)

Radiologic Technologies (Baccalaureate and higher programs)

1301 Home Economics, General

Other, Specify

- 1302 Home Decoration and Home Equipment
- 1303 Clothing and Textiles
- 1304 Consumer Economics and Home Management



1305 ramily Relations and Child Development
1306 Foods and Nutrition (include Dietetics)
1307 Institutional Management and Cafeteria Management
1399 Other, Specify

1400 LAW

Includes those subject field designations associated with instruction in the legal customs, practices, and rules of society and state for the purpose of pursuing a cureer in jurisprudence.

1401 Law, General 1499 Other, Specify

1500 LETTERS

Includes those subject field designations associated with English language and literature and value systems related to ancient and modern cultures.

1501 English, General 1502 Literature, English 1503 Comparative Literature 1504 1505 Linguistics (include Phonetics, Semantics, and Philology) 1506 Speech and Debate and Forensic Science (Rhetoric and Public Address) 1507 Creative Writing 1508 Teaching of English as a Foreign Language 1509 Philosophy 1510 Religious Studies (exclude Theological Professions)

1600 LIBRARY SCIENCE

1599

Including those subject field designations associated with instruction in the professional skills required to organize collections of books and related materials and the training necessary for providing services related to those resources.

1601 Library Science, General1699 Other Specify

Other, Specify

1700 MATHEMATICS

Includes those subject field designations associated with the science of numbers and space configurations and their operations, measurements, relationships, and abstractions.

1701 Mathematics, General

1702 Statistics, Mathematical and Theoretical

1703 Applied Mathematics

1799 Other, Specify

1800 MILITARY SCIENCES

Includes those subject field designations associated with techniques and skills unique to the pursuit of a professional career as a military officer.

1801 Military Science (Army)

1802 Naval Science (Navy - Marines)



1803 Aerospace Science (Air Force)

1899 Other, Specify

1900 PHYSICAL SCIENCES

Includes those subject field designations associated with the basic nature of matter and energy and associated phenomena.

1901 Physical Sciences, General

1902 Physics, General (exclude Biophysics)

1903 Molecular Physics

1904 Nuclear Physics

1905 Chemistry, General (exclude Biochemistry)

1906 Inorganic chemistry

1907 Organic chemistry

1908 Physical chemistry

1909 Analytical chemistry

1910 Pharmaceutical chemistry

1911 Astronomy

1912 Astrophysics

1913 Atmospheric Sciences and Meteorology

1914 Geology

1915 Geochemistry

1916 Geophysics and Seismology

1917 Earth Sciences, General

1918 Paleontology

1919 Oceanography

1920 Metallurgy

1999 Other, Specify

2000 PSYCHOLOGY

Includes those subject field designations associated with the nature, functions, and capabilities of the mind.

2001 Psychology, General

2002 Experimental Psychology (animal and human)

2003 Clinical Psychology

2004 Psychology for Counseling

2005 Social Psychology

2006 Psychometrics

2007 Statistics in Psychology

2008 Industrial Psychology

2009 Developmental Psychology

2010 Physiological Psychology

2099 Other, Specify

2100 PUBLIC AFFAIRS and SERV LCS

Includes the 2 subject field designations related to developing and improving competencies in the management and operation of governmental agencies.

2101 Community Services, General

2102 Public Administration

2103 Parks and Recreation Management

2104 Socia! Work and Helping Services (other than clinical social work)
2105 Law Enforcement and Corrections (Baccalaureate and higher programs)
2106 International Public Service (other than diplomatic service)
2199 Other, Specify

2200 SOCIAL SCIENCES

Includes those subject field designations associated with all aspects of the past and present activities, conduct, interactions, and organizations of humans.

- 2201 Social Sciences, General2202 Anthropology2203 Archeology
- 2204 Economics
- 2205 History 2206 Geograph
- 2206 Geography2207 Political Science and Government
- 2208 Sociology 2209 Criminology
- 2210 International Relations
- 2211 Afro-American (Black Culture) Studies
- 2212 American Indian Cultural Studies
- 2213 Mexican-American Cultural Studies
- 2214 Urban Studies
- 2215 Demography
- 2299 Other, Specify

2300 THEOLOGY

Includes those subject field designations related to preparation and training for a religious vocation.

- 2301 Theological Professions, General
- 2302 Religious Music
- 2303 Biblical Languages
- 2304 Religious Education
- 2399 Other, Specify

4900 INTERDISCIPLINARY STUDIES

Includes those subject field designations involving more than one major discipline without primary concentration in any one area.

- 4901 General Liberal Arts and Sciences
- 4902 Biological and Physical Sciences
- 4903 Humanities and Social Sciences
- 4904 Engineering and Other Disciplines
- 4999 Other, Specify





A TAXONOMY OF INSTRUCTIONAL PROGRAMS IN HIGHER EDUCATION

SECTION II: TECHNOLOGICAL AND OCCUPATIONAL CURRICULA LEADING TO ASSOCIATE DEGREES AND OTHER AWARDS BELOW THE BACCALAUREATE (Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.)

5000 BUSINESS and COMMERCE TECHNOLOGIES

Includes those subject field designations associated with development of skills required for commercial, business, or secretarial occupations at the semi-professional level.

5001	Business	and	Commerce	Technologies,	General
------	----------	-----	----------	---------------	---------

5002 Accounting Technologies

5003 Banking and Finance Technologies

5004 Marketing, Distribution, Purchasing, Business and Industrial Management Technologies

5005 Secretarial Technologies (include office machines training)

5006 Personal Service Technologies (Stewardess, Cosmetclogist, etc.)

5007 Photography Technologies

5008 Communications and Broadcasting Technologies (Radio/TV, Newspapers)

5009 Printing and Lithography Technologies

5010 Hotel and Restaurant Management Technologies

5011 Transportation and Public Utility Technologies

5012 Applied Arts, Graphic Arts, and Fine Arts Technologies (include advertising design)

5099 Other, Specify

5100 DATA PROCESSING TECHNOLOGIES

Includes those subject field designations associated with development of skills required for data processing related occupations at the semiprofessional level.

5101 Data Processing Technologies, General

5102 Key Punch Operator and Other Input Preparation Technologies

5103 Computer Programmer Technologies

5104 Computer Operator and Peripheral Equipment Operation Technologies

5105 Data Processing Equipment Maintenance Technologies

5199 Other, Specify

5200 HEALTH SERVICES and PARAMEDICAL TECHNOLOGIES

Includes those subject field designations associated with development of skills required for health service related occupations at the semiprofessional level.

5201 Health Services Assistant Technologies, General

5202 Dental Assistant Technologies

5203 Dental Hygiene Technologies

5204 Dental Laboratory Technologies

5205 Medical or Biological Laboratory Assistant Technologies

5206 Animal Laboratory Assistant Technologies

5207 Radiologic Technologies (X-Ray, etc.)

5208 Nursing, R.N. (less than 4 year program)



```
5209
             Nursing, Practical (L.P.N. or L.V.N. - less than 4 year program)
     5210
             Occupational Therapy Technologies
     5211
             Surgical Technologies
     5212
             Optical Technologies
                (include Ocular Care, Ophthalmic,
                 Optometric Technologies)
     5213
             Medical Record Technologies
     5214
             Medical Assistant and Medical Office Assistant Technologies
     5215
             Inhalation Therapy Technologies
     52.
             Psychiatric Technologies (include mental health aide programs)
     5217
             Electro Diagnostic Technologies (include E.K.G., E.E.G., etc.)
     י?5
              ___citutional Management Technologies (Rest Home, etc.)
     5219
             Physical Therapy Technologies
     5299
             Other, Specify
5300 MECHANICAL and ENGINEERING TECHNOLOGIES
             Includes those subject field designations associated
             with development of skills required for mechanical and
             engineering related occupations at the semiprofessional
             level.
     5301
             Mechanical and Engineering Technologies, General
     5302
             Aeronautical and Aviation Technologies
     5303
             Engineering Graphics (Tool and machine drafting and design)
     5304
             Architectural Drafting Technologies
     5305
             Chemical Technologies (include Plastics)
     5306
             Automotive Technologies
     5307
             Diesel Technologies
     53 18
             Welding Technologies
             Civil Technologies (Surveying, Photogrammetry, etc.)
     5309
             Electronics and Machine Technologies
     5310
                (TV, Appliance, Office Machine Repair, etc.)
     5311
             Electromechanical Technologies
     5312
             Industrial Technologies
     5313
             Textile Technologies
     5314
             Instrumentation Technologies
     5315
             Mechanical Technologies
     5316
             Nuclear Technologies
     5317
             Construction and Building Technologies (carpentry, electrical,
                plumbing, sheet metal, air conditioning, heating, etc.)
     5399
             Other, Specify
```

5400 NATURAL SCIENCE TECHNOLOGIES

Includes those subject field designations associated with development of skills required for natural science related occupations at the semiprofessional level.

5401	Natural Science Technologies, General
5402	Agriculture Technologies (include Horticulture)
5403	Forestry and Wildlife Technologies (include Fisheries)
5404	Food Services Technologies
5405	Home Economics Technologies
5406	Marine and Oceanographic Technologies
5407	Laboratory Technologies, General



5408 Sanitation and Public Health Inspection Technologies (Environmental Health Technologies)
5499 Other, Specify

5155 Guilet, Specify

5500 PUBLIC SERVICE RELATED TECHNOLOGIES

Includes those subject field designations associated with development of skills required for public service related occupations at the semiprofessional level.

	related occupations at the semiprofessional level.
5501	Public Service Technologies, General
5502	Bible Study or Religion Related Occupations
5503	Education Technologies (Teacher aids and 2-year teacher training programs)
5504	Library Assistant Technologies
5505	Police, Law Enforcement, Corrections Technologies
5506	Recreation and Social Work Related Technologies
5507	Fire Control Techaclogy
5508	Public Administration and Management Technologies
5599	Other, Specify

INDEX OF HEGIS DISCIPLINE SECTORS

Part I: Conventional Academic Subdivisions of Knowledge and Training

TITLE	CODE
Administration, Business Administration, Educational Administration, Special Education Administration, Special Education Adult Education Advertising Aeronautical Engineering Aerospace Engineering Aerospace Science African Languages (non-Semitic) African Studies Afro-American Studies Agricultural Business Agricultural Economics Agricultural Engineering Agricultural Engineering Agricultural Management Agriculture Technologies Agronomy American Indian Cultural Studies American Studies Analytical Chemistry Anatomy Animal Science Anthropolgy Applied Design Applied Mathematics Arabic Architectural Engineerino Architecture Art Art Appreciation Art Appreciation Art History Asian Studies, General Astronautical Engineering Astronomy Astrophysics Atmospheric Sciences Addiology	0502 0506 0827 2102 0809 0807 0604 0902 1803 1116 0305 2211 0111 0913 0101 0110 0110 0110 2212 0313 1909 0412 0104 2302 1009 1703 1112 2203 1001 1703 1002 1003 1003 1003 1003 1003 1003 10
Bacteriology Banking Biblical Languages Biochemistry Bioengineering Biological and Physical Sciences (Interdisciplinary) Biology, Cellular Biology, General Biology, Marine Biology, Molecular Bionedical Communication Biomedical Engineering Biometrics Biophysics Bio-Statistics Black Culture Studies Botany, General Business Administration Business, Agricultural	0403 0504 2303 0414 0905 4902 0417 0401 0418 0416 1217 0905 0419 0415 0419 2211 0402 0506



TITLE	CODE
Business Economics Business Education Business, General Business, International Business Management Business Statistics	0517 0838 0501 0513 0506 0503
Cafeteria Management Catalan Cell Biology Cell Physiology Ceramic Engineering Ceramics Chemical Engineering Jhemistry, General Child Development Chinese Chiropractic Cinematography City Planning Civil Engineering Classics Clinical Asychology Clinical Social Work Clothing Commerce, Education Commerce, General Communications General Communications Engineering Community College Education Community Planning Community Planning Community Services, General Computer Programming Computer Sciences, General Computer Sciences, General Construction Engineering Consumer Economics Continuing Education Corrections Counseling, Educational Creative Writing Criminology Crop Management Curriculum Cytology	1307 1199 0417 0916 1009 0906 1305 1107 1221 1010 0206 0908 1504 2003 1222 1303 0838 0501 1009 0605 0601 0909 0806 0206 2101 1503 0704 0701 0908 1304 0807 2105 0826 1507 2209 0417
Dairy Science Dance Danish Data Processing Debate Demography Dental Hygiene Dental Specialities Dental Technologies Dentistry, D.D.S. or D.M.D. Degree Developmental Psychology Dietetics Distributive Education Dramatic Arts Drawing Driver Education	0105 1008 1114 0703 1506 2215 1213 1205 1224 1204 2009 1306 0838 1007 1002 0836
Earth Sciences, General East Asian Studies Eastern European Studies Ecology Economics Ecenomics, Agricultural Economics, Business	1917 0302 0311 0420 2204 0111 0517



TITLE	CODE
Education of the Culturally Disadvantaged Education of the Deaf Education of the Emotionally Disturbed Education, General Education of the Gifted Education of Mentally Retarded Education of the Multiple Handicapped Education, Religious Education, Religious Education, Religious Educational Administration Educational Evaluation Educational Evaluation Educational Measurement Educational Psychology Educational Research Educational Supervision Educational Supervision Educational Supervision Educational Testing Electrical Engineering Electronics Engineering Elementary Education, General Embryology Engineering Mechanics Engineering and Other Disciplines (Interdisciplinary) Engineering Technologies English as a Foreign Language English, Literature Entomology Environmental Design, General Environmental Design, General Environmental Engineering European Studies, General Experimental Psychology (animal and human)	0813 0812 0816 0801 0811 0810 0820 0829 0825 0825 0825 0826 0828 0826 0909 0909 0909 0909 1508 1501 1502 0421 0922 0310 2002
Family Life Education Family Relations Farm Management Fashion Design Field Crops Finance Fine Arts, General Finnish Fish Management Floriculture Foods and Nutrition Food Science Food Technology Foreign Languages, General Forensic Science Forestry Forestry Technologies French Fruit Production	0837 1305 0110 1009 0102 0504 1001 1114 0107 0109 1306 0113 1101 1506 0114 0116 1102 0108
Game Management General Liberal Arts and Sciences (Interdisciplinary) Genetics Geochemistry Geography Geological Engineering Geology Geophysics Geophysical Engineering Geoman Government Greek, Classical Guidance, Education	0107 4901 0422 1915 2206 0911 1914 1916 0912 1103 2207 1110 0826



TITLE	COOE
Health Care Administration Health Education Health Professions, General Hebrew Helping Services Higher Education, General Histology History History of Education Home Oecoration Home Economics, General Home Equipment Home Management Horticulture Hospital Administration Hotel Management Hotel Management Homanities and Social Sciences (Interdisciplinary) Husbandry, Animal Husbandry, Dairy	1202 0837 1201 1111 2104 0805 0413 2205 0621 1302 1301 1302 1304 0108 1202 0508 4903 0104 0105
Ichthyology India Studies Indian (Asiatic) Industrial Arts Education Industrial Engineering Industrial Psychology Industrial Relations Information Sciences Information Sciences, General Information Systems Inorganic Chemistry Institutional Management Instruction Insurance Interior Decoration Interior Oesign International Business International Public Service International Relations Investments Islamic Studies Italian	0499 0303 1113 0839 0913 2008 0516 0702 0701 0702 1906 1307 0829 0512 1009 0203 0513 2106 2210 0505 0306 1104
Japanese Jewelry Journalism Junior College Education Junior High School Education	1108 1009 0602 0806 0304
Kindergarten Education Korean	0823 1199
Labor Relations Landscape Architecture Latin Latin American Studies Law Enforcement Law, General Learning Theory Liberal Arts and Sciences (Interdisciplinary) Library Science, General Limnology Linquistics Literature, Comparative Literature, English	0516 0204 1109 0308 2105 1401 0822 4901 1601 0499 1505 1503
Management, Business Management, Engineering Marine Biology Marine Engineering Marketing Matherials Engineering Mathematics, Applied	0506 0913 0418 0923 0509 0915 1703



TITLE	CODE
Mathematics, Education Mathematics, General Mathematics, Statistics Mechanical Engineering Medical Laboratory Technologies Medical Record Librarianship Medical Specialties Medicine, M.D. Degree Metallurgical Engineering Metallurgy Metallurgy Metalsmithing Meteorology Mexican-American Cultural Studies Microbiology Middle Eastern Studies Military Science Mineral Engineering Mining Engineering Mining Engineering Molecular Biology Molecular Physics Music (Liberal Arts Program) Music Appreciation Music Education Music Fedroming Music, Theory Music, Theory Musicology	0833 1701 1702 0910 1223 1215 1207 1206 0914 1920 1009 1913 2213 0411 0309 1801 0918 0918 0918 0416 1903 1005 1006 1004 0832 1006 1004 1004 1004
Natural Resources Management Naval Architecture Naval Science Neurosciences Norwegian Nuclear Engineering Nuclear Physics Nursery Science Nursing (Baccalaureate and Higher Programs) Nutrition, Scientific	0115 0923 1802 0425 1114 0920 1904 0109 1203 0424
Occupational Therapy Ocean Engineering Oceanography Operations Research Optometry Organic Chemistry Ornamental Horticulture Omnithology Osteopathic Medicine, D.O. Degree	1208 0924 1919 0507 1209 1907 0109 0499 1210
Pacific Area Studies Painting Paleontology Parasitology Parks Management Pathology, Animal Pathology, Human Pathology, Plant Personnel Management Petroleum Engineering Petroleum Engineering Petroleum Refining Pharmaceutical Chemistry Pharmacology, Animal Pharmacology, Human Pharmacology, Plant Pharmacy Philology Philosophy Philosophy of Education Phonetics Photography	0314 1002 1918 0499 2103 0408 0408 0404 0515 0907 0906 1910 0409 0409 0405 1211 1505 1509 0821 1505



TITLE	CODE
Physical Chemistry Physical Education Physical Sciences, General Physical Therapy Physics, General Physiological Psychology Physiology, Animal Physiology, Human Physiology, Plant Plat Pathology Plant Pharmacology Plant Physiology Podiatry Political Science Poultry Science Pre-Elementary Education Programming, Computer Psychology, Clinical Psychology, Counseling Psychology, Developmental Psychology, Developmental Psychology, General Psychology, Industrial Psychology, Physiological Psychometrics Public Address Public Address Public Health Public Utilities Purchasing	1908 0835 1901 1212 2010 0410 0410 0406 0404 0405 0406 1216 2207 2106 0823 0704 2003 2004 2009 0822 2001 2008 2010 2005 2006 1506 2102 1214 0510 0509
Radio Radiobiology Radiologic Technologies Range Management Reading Education Real Estate Recreation Hanagement Regional Planning Rehabilitation Services Religious Education Religious Husic Religious Studies Remedial Education Restaurant Management Rhetoric Russian Russian Studies	0603 0423 1225 0117 0830 0511 2103 0206 1222 2304 2302 1510 0817 0508 1506 1106 0306
Safety Education Sanitary Engineering Sanskrit Scandinavian Languages Science Education Sculpture Secondary Fducation, General Secretarial Studies Securities Seismology Semantics Semitic Slavic Languages (other than Russian) Slavic Studies Social Foundations of Education Social Sciences, General Social Psychology Social Work Sociology Soils Conservation Soils Conservation Soils Science	0836 0922 1199 1114 0834 1002 0803 0514 0505 1916 1505 1111 1115 0307 0821 2201 2201 2208 2104 2208 0103 0103



TITLE	CODE
South Asian Studies Southeast Asian Studies Spanish Special Leducation, General Special Learning Disabilities Speech Speech Correction Speech Pathology Statistics, Mathematical and Theoretical Statistics in Psychology Student Personnel Swedish Systems Analysis Systems, Information	0303 0304 1105 0808 0818 1506 0815 1220 1702 2007 0826 1114 0705 0702
Teaching of English as a Foreign Language Technical Education Television Textile Design Textile Engineering Textiles, Home Economics Theological Professions, General Toxicology Transportation Transportation Engineering	1508 0839 0603 1009 0917 1303 2301 0426 0510 0908
Urban Architecture Urban Studies	0205 2214
Vegetable Production Veterinary Medicine, D.V.M. Degree Veterinary Medicine Specialtics Vietnamese Vocational Education	0108 1218 1219 1199 0839
Weaving West European Studies Wildlife Management Writing, Creative	1009 0312 0107 1507
Zoology, General	0407



Part 2: Technologies and Occupational Specialties Related to Curriculums Leading to Associate Degrees and Other Awards Below the Baccaloureate

TITLE	CODE
Accounting Technologies Advertising Design Technologies Advertising Technologies Aeronautical Technologies Agriculture Technologies Air Conditioning Technologies Airport Management Technologies Animal Laboratory Assistant Technologies Appliance Repair Technologies Applied Arts Technologies Applied Arts Technologies Architectural Drafting Technologies Automotive Technologies Aviation Technologies	5002 5012 5004 5302 5402 5317 5004 5206 5310 5012 5304 5306 5302
Banking Technologies Bible Study Biological Laboratory Assistant Technologies Broadcasting Technologies Building Technologies Business Management Technologies Business Technologies, General	5003 5502 5205 5003 5317 5004 5001
Carpentry Technologies Chemical Technologies Civil Technologies Commerce Technologies, General Communications Technologies Computer Operator Technologies Computer, Peripheral Equipment Operation Technologies Computer Programmer Technologies Construction Technologies Corrections Technologies Cosmetologist	5317 5305 5309 5001 5008 5104 5104 5103 5317 5505 5006
Data Processing Equipment Maintenance Technologies Data Processing Technologies, General Dental Assistant Technologies Dental Hygiene Technologies Dental Laboratory Technologies Diesel Technologies Distribution Technologies Drafting, Architectural	5105 5101 5202 5203 5204 5307 5004 5304
Education Technologies Electrician Technologies Electro Diagnostic Technologies Electromechanical Technologies Electromics and Machine Technologies Engineering Graphics Engineering Technologies, General Environmental Health Technologies	5503 5317 5217 5311 5310 5303 5301 5408
Finance Technologies Fine Arts Technologies Fire Control Technology Fisheries Technologies Food Services Technologies Forestry Technologies	5003 5012 5507 5403 5404 5403
Graphic Arts Technologies	5012
Health Services Assistant Technologies, General Heating Technologies Home Economics Technologies Horticulture Technologies Hospital Food Service Technologies Hotel Management Technologies	5201 5317 5405 5402 5404 5010



TITLE	CODE
Industrial Management Technologies Industrial Technologies Inhalation Therapy Technologies Input Preparation Technologies Input Preparation Technologies Instrumentation Technologies Instrumentation Technologies Insurance Technologies	5004 5312 5215 5102 5218 5314 5004
Key Punch Operator Technologies	5102
Laboratory Technologies, General Landscape Technologies Law Enforcement Technologies Library Assistant Technologies Lithography Technologies	5407 5402 5505 5504 5009
Machine Drafting and Design Technologies Machine Repair Technologies Marina Management Technologies Marine Technologies Marketing Technologies Mechanical Technologies Mechanical Technologies, General Medical Assistant Technologies Medical Laboratory Assistant Technologies Medical Office Assistant Technologies Medical Record Tachnologies Medical Record Tachnologies	5303 5310 5004 5406 5004 5315 5301 5214 5205 5214 5213 5216
Natural Science Technologies, General Newspaper Communication Technologies Nuclear Technologies Nursing, Practical (L.P.N. or L.V.N.) Nursing R.N. Preparation	5401 5008 5316 5209 5208
Occupational Therapy Technologies Oceanographic Technologies Ocular Care Technologies Office Machine Repair Technologies Office Machines Training Ophthalmic Technologies Optical Technologies Optical Technologies	5210 5406 5212 5310 5005 5212 5212 5212
Personal Management Technologies Personal Service Technologies Photogrammetry Technologies Photography Technologies Physical Therapy Technologies Plastics Technologies Plumbing Technologies Police Technologies Printing Technologies Printing Technologies Programmer Technologies Psychiatric Technologies Public Administration and Management Technologies Public Health Inspection Technologies Public Service Technologies, General Public Utility Technologies Purchasing Technologies	5004 5006 5309 5007 5219 5305 5317 5505 5009 5103 5216 5508 5408 5501 5011
Radio Broadcasting Technologies Radio Repair Technologies Radiologic Technologies Real Estate Technologies Recreation Technologies Religion Related Occupations Rest Home Management Technology Restaurant Management Technologies	5008 5310 5207 5004 5506 5502 5218 5010



TITLE	CODE
Sales Technologies Sanitation Technologies Secretarial Technologies Sheet Metal Technologies Social Nork Related Technologies Stewardess Preparation Surgical Technologies Surveying Technologies	5004 5408 5005 5317 5506 5006 5211 5309
Teacher Aide Preparation Television Broadcasting Technologies Television Repair Technologies Textile Technologies Tool Design Technologies Transportation Technologies	5503 5008 5310 5313 5303 5011
Welding Technologies Wildlife Technologies	5308 5403
X-Ray Technologies	5207



Program Classification Structure

APPENDIX III

PCS Program Sectors by Program Category

(Excluding HEGIS Discipline Sectors listed in Appendix II)

ERIC Full Text Provided by ERIC

```
6600 Agriculture and Related Industries
     6601 Unassigned
6700 Social and Economic Development
     6701 Urassigned
     6799
8800 Quality of Living
     6801 Unassigned
     6899
6900 <u>International Extension</u>
     6901 Unassigned
7100 Student Development
     7110 Student Activities
     7120 Cultural Events
     7130 Student Organizations
     7140 Recreation
     7150 Intramural Athletics
     7160 (Reserved)
     7170 (Reserved)
     7180 (Reserved)
     7190 Unassigned
7200 <u>Intercollegiate Athletics</u>
     7201 Baseball
     7202 Basketball
     7203 Boxing
     7204 Diving
     7205 Fencing
     7206 Football
     7207 Golf
     7208 Gymnastics
     7209 Ice Hockey
     7210 Lacrosse
     7211 Rowing
     7212 Rugby
     7213 Skiing
     7214 Soccer
     7215 Swimming
     7216 Tennis
     7217 Track and Field
```



```
7200 Intercollegiate Athletics (con't)
      7218 Wrestling
      7219 (Reserved)
      7249
      7250
           Unassigned
      7299
     Supporting Services
      7310 Food Services
      7320
           Health Services
      7330
           Housing Services
      7340
           Retail Services and Concessions
      7350
           (Reserved)
      7360
           (Reserved)
      7370
           (Reserved)
      7380
           (Reserved)
     7390 Unassigned
7400 Special Student Services
      7410
           Veterans
      7420 Foreign Students
      7430 Disadvantaged
     7440 Physically Handicapped
           (Reserved)
     7450
      7460
           (Reserved)
      7470
            (Reserved)
      7480
            (Reserved)
      7490 Unassigned
8100 Central Operations
     8110 Executive Direction
     8120 Planning and Programming
     8130 Legal Services
     8140 Fiscal Control
     8150 Investments
     8160
           Administrative Support
     8165 Space Management
     8170 Environmental Health and Safety
     8175 Alumni Relations
     8180 Community Relations
     8185 Development
     8190
           Unassigned
     Functional Operations
     8210 Fiscal Operations
     8220 Student Admissions and Records
     8230 Employee Personnel and Records
     8240 Purchasing and Materials
      8250 Communication and Services
```



```
8200 Functional Operations (con't)
      8260 Transportation Services
      8270 (Reserved)
      8280 (Reserved)
      8290 Unassigned
8300 Maintenance Operations
      8310 Utility Plants
      8320 Building Maintenance
      8330 Grounds Maintenance
      334
             rtodial Services
      1 م
             eserved)
      8360 (Reserved)
      8370 (Reserved)
      8380 (Reserved)
      8390 Unassigned
8400 Plant Expansion and Modification
      8410 New Building Construction
      8420 Facility Remodeling
      8430 Landscaping and Grounds Modification
      8440 (Reserved)
      8450 (Reserved)
      8460 (Reserved)
      8470 (Reserved)
      8480 (Reserved)
      8490 Unassigned
9100 Other Instruction
      9101 Unassigned
      9199
9200 Other Organized Research
      9201 Unassigned
      9299
9300 Other Public Service
      9301 Unassigned
      9399
9400 Other Academic Support
      9401 Unassigned
      9499
```



Appendix IV

SAMPLE CROSSWALK

Appendix Four is a sample "crosswalk" to demonstrate the manner in which typical accounts will relate to the Program Classification Structure. For the purpose of this illustration, the crosswalk is developed only to the program sector level. In practice, data from the institution's accounting system will normally be transformed into program elements, thus an institution's crosswalk will be far more extensive than the sample crosswalk used for this illustration.

The hypothetical accounting system used for this sample cross-walk is based on a twelve-digit account number to identify each account. The fund is character one, e.g., state appropriations, federal appropriations, etc.; the function is character two, e.g., instruction, central administration, student services, etc.; the category is character three, e.g., equipment, salaries, wages, operating expenses, etc.; the reporting unit is characters four through six, e.g., English Department, Accounting Department, Economics Department, Engineering Department, etc. The remaining six characters are used to further delineate the account classifications.

Because of the simplified nature of this particular illustration, many accounts have been related to the Program Classification Structure at levels above the Program Sector, e.g., account number 12201053xxxx, Instruction, Operating Expense, E.D.P. (by discipline) is related to the Program Classification Structure instruction program (by discipline) with codes of the form 10xxxx. The zero in the second character indicates that the data processing expenses in the various discipline instruction activities is not identified by subprogram and should be allocated to all instruction programs in the respective disciplines.

The sample crosswalk is listed first by the Program Classification Structure code with at least one entry for each of the thirty PCS subprograms. Following the PCS list is a listing by account number in numerical sequence.



7.7 A-32

Account Number	INSTRUCTION, OPERATING EXP. E.D.P., BIOLOGY INSTRUCTION, OPERATING EXP. E.D.P., ACCOUNTING INSTRUCTION, OPERATING EXP. E.D.P., ACCOUNTING INSTRUCTION, OPERATING EXP. E.D.P., FINANCE INSTRUCTION, OPERATING EXP. E.D.P., MANAGEMENT INSTRUCTION, OPERATING EXP. E.D.P., MARKETING INSTRUCTION, OPERATING EXP. E.D.P., ECONOMICS INSTRUCTION, OPERATING EXP. E.D.P., GENERAL EDUCATION INSTRUCTION, OPERATING EXP. E.D.P., MATHEMATICS INSTRUCTION, OPERATING EXP. E.D.P., MATHEMATICS INSTRUCTION, OPERATING EXP. E.D.P., CHEMISTRY INSTRUCTION, OPERATING EXP. E.D.P., CHEMISTRY INSTRUCTION, OPERATING EXP. E.D.P., PSYCHOLOGY INSTRUCTION, OPERATING EXP. E.D.P., POLITICAL SCIENCE INSTRUCTION, OPERATING EXP. E.D.P., POLITICAL SCIENCE INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, AFRO STUDIES INSTRUCTION, SALARIES, ACADEMIC YR. BIOLOGY INSTRUCTION, SALARIES, ACADEMIC YEAR, MANAGEMENT INSTRUCTION, SALARIES, ACADEMIC YEAR, MANAGEMENT INSTRUCTION, SALARIES, ACADEMIC YEAR, MANAGEMENT INSTRUCTION, SALARIES, ACADEMIC YEAR, MARKETING INSTRUCTION, SALARIES, ACADEMIC YEAR, MARKETING INSTRUCTION, SALARIES, ACADEMIC YEAR, ECONOMICS SPECIAL VISITING LECTURER EXPENSE, JOURNALISM INSTRUCTION, SALARIES, ACADEMIC YEAR, ELEMENTARY ED. INSTRUCTION, SALARIES, ACADEMIC YEAR, BUSINESS EDUCATION	PCS No.
122010532210	INSTRUCTION. OPERATING EXP. E.D.P., BIOLOGY	100401
122010531810	INSTRUCTION, OPERATING EXP. E.D.P., ACCOUNTING	100502
122010531830	INSTRUCTION, OPERATING EXP. E.D.P., FINANCE	100504
122010531860	INSTRUCTION, OPERATING EXP. E.D.P., MANAGEMENT	100506
122010531840	INSTRUCTION, OPERATING EXP. E.D.P., MARKETING	100509
122010531820	INSTRUCTION, OPERATING EXP. E.D.P., ECONOMICS	100517
122010531900	INSTRUCTION, OPERATING EXP. E.D.P., GENERAL EDUCATION	100801
122010532000	INSTRUCTION, OPERATING EXP. E.D.P., GENERAL ENGINEERING	100901
122010532230	INSTRUCTION, OPERATING EXP. E.D.P., MATHEMATICS	101701
122010532220	INSTRUCTION, OPERATING EXP. E.D.P., PHYSICS	101902
122010532240	INSTRUCTION, OPERATING EXP. E.D.P, CHEMISTRY	101905
122010532250	INSTRUCTION, OPERATING EXP. E.D.P., GEOLOGY	101914
122010532160	INSTRUCTION, OPERATING EXP. E.D.P., PSYCHULUGY	102001
122011) 232120	INSTRUCTION EQUIDMENT ACADEMIC YEAR AFRO CHURIES	1102201
121042210000	INSTRUCTION TEMP HELD ACADEMIC TEAR, AFRO STUDIES	110303
121002210000	INSTRUCTION, TEMP RELP, ACADEMIC TR. BIOLOGI	110502
121010910000	INSTRUCTION, SALARIES, ACADEMIC YEAR, EINANCE	110504
121040960000	INSTRUCTION. SALARIES, ACADEMIC YEAR, MANAGEMENT	110506
121040940000	INSTRUCTION. SALARIES. ACADEMIC YEAR. MARKETING	110509
121010920000	INSTRUCTION. SALARIES. ACADEMIC YEAR. ECONOMICS	110517
123011570000	SPECIAL VISITING LECTURER EXPENSE, JOURNALISM	110602
121051900000	INSTRUCTION, STD. ASST., ACADEMIC YR., EDUCATION	110801
113001000000	CENTRAL ADMIN. EQUIPMENT, EDUCATION	110801
121011020000	INSTRUCTION, SALARIES, ACADEMIC YEAR, ELEMENTARY ED.	110802
121011030000	INSTRUCTION, SALARIES, ACADEMIC YEAR, SECONDARY ED.	110803
123011560000	SPECIAL VISITING LECTURER EXPENSE P.E	110835
121030950000	INSTRUCTION, SALARIES, ACADEMIC YEAR, BUSINESS EDUCATION	
113001400000	CENTRAL ADMIN. EQUIPMENT, ENGINEERING	110901
121052000000	INSTRUCTION, STD. ASST., ACADEMIC YR., GENERAL ENGINEERING	110901
123011400000	INSTRUCTION, STD. ASST., ACADEMIC YR., GENERAL ENGINEERING INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGINEERING SPECIAL VISITING LECTURER EXPENSE, ART SPECIAL VISITING LECTURER EXPENSE, MUSIC SPECIAL VISITING LECTURER EXPENSE, DRAMA INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, FOR. LANG. SPECIAL VISITING LECTURER EXPENSE, HEALTH SCIENCE SPECIAL VISITING LECTURER EXPENSE, HOME ECON. INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGLISH INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, SPEECH INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PHILOSOPHY INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PHILOSOPHY	1110901
123011510000	SPECIAL VISITING LECTURED EXPENSE, ART	111002
123011530000	SPECIAL VISITING LECTURER EXPENSE, MOSIC	111007
123011320000	INSTRUCTION. FOULDMENT. ACADEMIC YEAR. FOR. LANG.	111101
123011530000	SPECIAL VISITING LECTURER EXPENSE. HEALTH SCIENCE	111201
123011540000	SPECIAL VISITING LECTURER EXPENSE, HOME ECON.	111301
123011280000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGLISH	111501
121052180000	INSTRUCTION, STD. ASST., ACADEMIC YR., ENGLISH	111501
123011290000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, SPEECH	111506
123021240000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PHILOSOPHY	111509
123041300000	INDINOCTION - ENGINEERLY HONDERIC - INNER REFLECTION DISDIES	
	INSTRUCTION, TEMP HELP, ACADEMIC YR. MATHEMATICS	111701
	INSTRUCTION, TEMP HELP, ACADEMIC YR. PHYSICS	111902
	INSTRUCTION, TEMP HELP, ACADEMIC YR. CHEMISTRY	111905
	INSTRUCTION, TEMP HELP, ACADEMIC YR. GEOLOGY INSTRUCTION, SALARIES, ACADEMIC YEAR, PSYCH. GENERAL	111914 1120 01
121031010000	INSTRUCTION, SALARIES, ACADEMIC YEAR, PSYCHOLOGY	112001
121031210000	INSTRUCTION, SALARIES, ACADEMIC YEAR, ANTHROPOLOGY	112202
	INSTRUCTION, STD. ASST., ACADEMIC YR., ANTHROPOLOGY	112202
	INSTRUCTION, SALARIES, ACADEMIC YEAR, HISTORY	112205
	INSTRUCTION, SALARIES, ACADEMIC YEAR, GEOGRAPHY	112206
123011250000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, POL. SCIENCE	112207
	INSTRUCTION, STD. ASST., ACADEMIC YR., SOCIOLOGY	112208
	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, SOCIOLOGY	112208
	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, MET. AMER. STUDIES	112213
	INSTRUCTION SALARIES, SUMMER SESSION, ACCOUNTING	120502
171057420930	INSTRUCTION SALARIES, SUMMER SESSION, FINANCE	120504



```
171057420940 INSTRUCTION SALARIES, SUMMER SESSION, MARKETING
                                                                                   120509
171057420920 INSTRUCTION SALARIES, SUMMER SESSION, ECONOMICS
                                                                                   120517
171057421000 INSTRUCTION SALARIES, SUMMER SESSION, GENERAL ED.
                                                                                   120801
171057421400 INSTRUCTION SALARIES, SUMMER SESSION, ENGINEERING
                                                                                   120901
171057421280 INSTRUCTION SALARIES, SUMMER SESSION, ENGLISH
                                                                                   121501
171057421320 INSTRUCTION SALARIES, SUMMER SESSION, PHYSICS
                                                                                   121902
171057421340 INSTRUCTION SALARIES, SUMMER SESSION, CHEMISTRY
                                                                                   121905
171057421260 INSTRUCTION SALARIES, SUMMER SESSICN, PSYCHOLOGY
                                                                                   122001
171057421270 INSTRUCTION SALARIES, SUMMER SESSION, SOCIOLOGY
                                                                                   122208
701071000000 INSTRUCTION, EXTENSION EVENING DEGREE PROG., SALARIES, ED.
                                                                                   130801
702071330000 INSTRUCTION, EXT. EVE. DEGREE PROG., OPER. EXP., MATH
                                                                                   131701
702071340000 INSTRUCTION, EXT. EVE. DEGREE PROG., OPER. EXP., CHEMISTRY 702071350000 INSTRUCTION, EXT. EVE. DEGREE PROG., OPER. EXP., GEOLOGY 121052180000 INSTRUCTION SALARIES, SPECIAL PROGRAMS, ENGLISH 122052180000 INSTRUCTION, SPECIAL PROGRAMS, OPER. EXP., ENGLISH
                                                                                   131905
                                                                                   131914
                                                                                   141501
                                                                                   141501
195043000000 EDUCATIONAL MATERIALS RESEARCH INSTITUTE
                                                                                   210800
195043000000 EDUCATIONAL MATERIALS RESEARCH INSTITUTE
                                                                                   210800
195042000000 ENGINEERING RESEARCH CENTER GRANT
                                                                                   210900
161829020600 RESEARCH SALARIES INSTITUTION GRANT NO. 257 SMITH
                                                                                   220502
161829020700 RESEARCH SALARIES INSTITUTION GRANT NO. 258 JONES
                                                                                   220901
161829020800 RESEARCH SALARIES INSTITUTION GRANT NO. 268 COOPER
                                                                                   221501
161829020900 RESEARCH SALARIES INSTITUTION GRANT NO. 269 MARKS
                                                                                   221905
181010910000 CONTINUING EDUCATION SALARIES, ACCOUNTING
                                                                                   310502
181010920000 CONTINUING EDUCATION SALARIES, ECONOMICS
                                                                                   310517
181010920000 CONTINUING EDUCATION SALARIES, ECONOMICS
                                                                                   310517
181041290000 CONTINUING EDUCATION SLALRIES, ENGLISH
                                                                                   311501
181041290000 CONTINUING EDUCATION SALARIES, ENGLISH
                                                                                   311501
181021010000 CONTINUING EDUCATION SALARIES, PSYCHOLOGY
                                                                                   312001
181021010000 CONTINUING EDUCATION SALARIES, PSYCHOLOGY
                                                                                   312001
183001400000 EXTENSION EQUIPMENT, ENGINEERING
                                                                                   320901
183001300000 EXTENSION EQUIPMENT, FOREIGN LANGUAGE
                                                                                   321101
702071000000 EXTENSION PUBLIC LECTURES, OPER. EXP.
                                                                                   330000
701071000000 EXTENSION PUBLIC LECTURES, HONORARIUMS
                                                                                   330000
603010020000 STOREFRONT COLLEGE, EQUIPMENT
                                                                                   340000
602010020000 STOREFRONT COLLEGE, OPER. EXP.
                                                                                   340000
601010020000 STOREFRONT COLLEGE, SALARIES
                                                                                   340000
112010990000 URBAN AFFAIR CENTER, OPER. EXP.
                                                                                   342214
111010990000 URBAN AFFAIRS CENTER, SALARIES
                                                                                   342214
122019880000 AG. EXTENSION, OP. EXP.
                                                                                   350000
121019890000 AG. EXTENSION, SALARIES
                                                                                   350000
12209/1900000 AG. EXTENSION RURAL DEV. CTR. OP. EXP.
                                                                                   356700
113005030000 CENTRAL ADMIN. EQUIPMENT, LIBRARY 112165030000 CENTRAL ADMIN. TRAVEL, LIBRARY
                                                                                   410000
                                                                                   410000
131010504000 LIBRARY, PROCESSING SERVICES
                                                                                   410000
132600000000 LIBRARY, BOOKS
                                                                                   410000
131015050000 LIBRARY, PUBLIC SERVICES
                                                                                   410000
131015030000 LIBRARY, ADMINISTRATION
                                                                                   410000
133000000000 LIBRARY, EQUIPMENT
                                                                                   410000
132610000000 LIBRARY, PERIODICALS
                                                                                   410000
161821810000 DEPARTMENTAL LIBRARY EXPENSES, BUSINESS
                                                                                   410500
161821820000 DEPARTMENTAL LIBRARY EXPENSES, ECONOMICS
                                                                                   410517
161822000000 DEPARTMENTAL LIBRARY EXPENSE ENGINEERING
                                                                                   410900
161822230000 DEPARTMENTAL LIBRARY EXPENSE
                                                                                   411700
                                                MATHEMATICS
161822220000 DEPARTMENTAL LIBRARY EXPENSE
                                                PHYSICS
                                                                                   411902
161822240000 DEPARTMENTAL LIBRARY EXPENSE
161822180000 DEPARTMENTAL LIBRARY EXPENSE
                                                CHEMISTRY
                                                                                   411905
                                               PSYCHOLOGY
                                                                                   412000
141005050000 ART GALLERY, SALARIES
                                                                                   420000
```



143005050000	ART GALLERY. EQUIPMENT	420000
1/20000000000	ANT CALLEDY ACCURATIONS	430000
143000000000	ARI GALLERY, ACQUISITIONS	420000
132101000000	ART GALLERY OPERATING EXPENSE	420000
112144720000	CENTRAL ADMINISTRAÇÃO ALIQUO VECHAL	(20000
112164720000	CENTRAL ADMIN. TRAVEL, AUDIO VISUAL	4.30000
122447300000	EDUCATION AUDIO VISUAL CENTER SALARIES	430000
122447100000	EDUCATION AUDIO VISUAL CENTED EQUIDMENT	420000
12249/100000	EDUCATION AUDIO VISUAL CENTER EQUIPMENT	430000
122444760000	EDUCATION, AUDIO VISUAL CENTER INSTRUCTIONAL AIDS	430000
122444750000	EDUCATION, AUDIO VISUAL CENTER RENTALS	430000
122444120000	ART GALLERY, EQUIPMENT ART GALLERY, ACQUISITIONS ART GALLERY OPERATING EXPENSE CENTRAL ADMIN. TRAVEL, AUDIO VISUAL EDUCATION AUDIO VISUAL CENTER SALARIES EDUCATION AUDIO VISUAL CENTER EQUIPMENT EDUCATION, AUDIO VISUAL CENTER INSTRUCTIONAL AIDS EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE	130000
122444740000	EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE	430000
122444730000	EDUCATION, AUDIO VISUAL CENTER, TEACHER TRAINING MATERIALS	430800
113000330000	CENTRAL ARMIN ACAR COMPUTER CTR MAINTENAME	440000
113000320000	CENTRAL ADMINITY ACAD. COMPOTER CTR. F MAINTENANCE	770000
113000320000	CENTRAL ADMIN., ACAD. COMPUTER CTR., EQUIPMENT	440000
113000320000	CENTRAL ADMIN. ACAD. COMPUTER CTR. SUPPLIES	440000
1110100020000	CENTRAL ADMIN ACAD COMPUTED CITY CALABIES	440000
111010320000	CENTRAL ADMIN., ACAD. COMPOTER CIR., SALARIES	440000
122822015200	EDUCATION, ENGINEERING COMP. CTR., OPER. EXP	440900
121922015200	EDUCATION. ENGINEERING COMP. CTP SALARIES	440900
121022019200	EDUCATION ENGINEERING COMP. CTR. SALARIES	440000
123822015200	EDUCATION, ENGINEERING COMP. CTR., EQUIPMENT	440900
111001000000	EDUCATION, LAB. SCHOOL, SALARIES	450800
112001000000	EDUCATION LAD SCHOOL DED EVE	450000
1.12001000000	EDUCATION, CAB. SCHOOL, OPER. EXP	450800
113001000000	EDUCATION. LAB. SCHOOL, EQUIPMENT	450800
112165220000	CENTRAL ADMIN TRAVEL STUDENT ACTIVITIES	517110
112103330000	CENTRAL ADMIN. TRAVELY STODENT ACTIVITIES	217110
141025330000	STUDENT SERVICES SALARIES, STUDENT ACTIVITIES	51/110
122431000000	SPECIAL LECTURES EXPENSE	517120
13343000000	CRECTAL THIODIAL EVENCE	E20000
122430000000	SPECIAL IUIURIAL EXPENSE	520000
113005340000	CENTRAL ADMIN. EQUIPMENT, STUDENT COUNSELING	530000
112165360000	CENTRAL ADMIN. TRAVEL. PLACEMENTS	530000
112105300000	CTUDENT CONTINUE ON AND TECTING	530000
141045340000	SIDDENI SERVICES SALARIES, COUNSELING AND TESTING	230000
141035360000	STUDENT SERVICES SALARIES. PLACEMENTS	530000
112165720000	CENTRAL ARMIN. TRAVEL HEALTH SERVICES	527220
112165720000	CENTRAL ADMING TRAVELY HEALTH SERVICES	231320
112110220000	CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS	540000
161820170000	STUDENT FINANCIAL AIDS. PROPERTY	540000
1/10201/0000	CTUDENT CINANCIA AIDC CUITCUDGADD	540000
191850190000	STUDENT FINANCIAL ALUS, SWITCHBUARD	540000
161820150000	STUDENT FINANCIAL AIDS, PURCHASING	540000
161820140000	STUDENT FINANCIAL AIDS. SALADIES	540000
14102570000	EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE CENTRAL ADMIN., ACAD. COMPUTER CTR., MAINTENANCE CENTRAL ADMIN., ACAD. COMPUTER CTR., MAINTENANCE CENTRAL ADMIN., ACAD. COMPUTER CTR., EQUIPMENT CENTRAL ADMIN., ACAD. COMPUTER CTR., SUPPLIES CENTRAL ADMIN., ACAD. COMPUTER CTR., SUPPLIES CENTRAL ADMIN., ACAD. COMPUTER CTR., SUPPLIES CENTRAL ADMIN., ACAD. COMPUTER CTR., SALARIES EDUCATION, ENGINEERING COMP. CTR., DEVE. EXP EDUCATION, ENGINEERING COMP. CTR., EQUIPMENT EDUCATION, LAB. SCHOOL, SALARIES EDUCATION, LAB. SCHOOL, SALARIES EDUCATION, LAB. SCHOOL, DER. EXP EDUCATION, LAB. SCHOOL, EQUIPMENT CENTRAL ADMIN. TRAVEL, STUDENT ACTIVITIES STUDENT SERVICES SALARIES, STUDENT ACTIVITIES SPECIAL LECTURES EXPENSE SPECIAL TUTORIAL EXPENSE CENTRAL ADMIN. EQUIPMENT, STUDENT COUNSELING CENTRAL ADMIN. TRAVEL, PLACEMENTS STUDENT SERVICES SALARIES, COUNSELING AND TESTING STUDENT SERVICES SALARIES, PLACEMENTS CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS STUDENT FINANCIAL AIDS, POPERTY STUDENT FINANCIAL AIDS, SWITCHBOARD STUDENT FINANCIAL AIDS, PURCHASING STUDENT FINANCIAL AIDS, SALARIES STUDENT SERVICES SALARIES, HEALTH SERVICES STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING	540000
141025720000	STUDENT SERVICES SALARIES, HEALTH SERVICES STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING STUDENT SERVICES, HEALTH SERVICES, X-RAYS STUDENT SERVICES, HEALTH SERVICES, DRUGS STUDENT SERVICES, HEALTH SERVICES, SUPPLIES STUDENT HOUSING OPERATING EXPENSE STUDENT HOUSING SALARIES STUDENT SERVICES SALARIES, FOREIGN STUDENTS PROGRAM CENTRAL ADMIN. TRAVEL, PRESIDENT CENTRAL ADMIN. SUPPLIES, ADVISORY BOARD CENTRAL ADMIN. SUPPLIES, ADMIN. V.P.	557320
142345728000	STUDENT SERVICES. HEALTH SERVICES. PSYCHIATRIC COUNSELING	557320
142345725000	CTHRENT CERVICES, HEALTH CERVICES Y-DAVE	557220
142345725000	STODENT SERVICES, HEALTH SERVICES, A-RATS	221320
142345722000	STUDENT SERVICES, HEALTH SERVICES, DRUGS	557320
142345721000	STUDENT SERVICES. HEALTH SERVICES. SUPPLIES	557320
403010000000	STUDENT HOUSING OREDATING EXPENSE	EE7220
40201000000	STODENT HOUSING OPERATING EXPENSE	221220
401010000000	STUDENT HOUSING SALARIES	557330
141035370000	STUDENT SERVICES SALARIES. FORFIGN STUDENTS PROGRAM	557420
1121600000	CENTRAL ADMIN TRAVEL DESCRIPTION	(10110
112160020000	CENTRAL ADMIN. TRAVEL, PRESIDENT	OTOTIO
112110051000	CENTRAL ADMIN. SUPPLIES, ADVISORY BOARD	618110
112110030000	CENTRAL ARMIN. SUPPLIES. ARMIN. V.D.	618110
112110030000	CENTRAL ADMINI CURBILLES MONTHS (1)	(10110
112110020000	CENTRAL ADMIN. SUPPLIES, PRESIDENT	OIGIIO
112220020000	CENTRAL ADMIN. COMMUNICATIONS, PRESIDENT	618110
	CENTRAL ADMIN. POSTAGE, PRESIDENT	618110
	CENTRAL ADMIN. EQUIPMENT, PRESIDENT	61811 0
111010020000	CENTRAL ADMIN. SALARIES, EXECUTIVE	618110
	CENTRAL ADMIN. EQUIPMENT, FACULTY PRES.	618120
112160840000	CENTRAL ADMIN. TRAVEL, FACULTY PRES.	61812 0
	CENTRAL ADMIN. SUPPLIES, ACCOUNTING	628210
	CENTRAL ADMIN. EQUIPMENT, ACCOUNTING	628210
112220130000	CENTRAL ADMIN. COMMUNICATIONS, ACCOUNTING	628 210
	CENTRAL ADMIN. SALARIES, ACCOUNTING	628210
	CENTRAL ADMIN. OPERATING EXPENSES, E.D.P.	638160
112220320000	CENTRAL ADMIN. COMMUNICATIONS, E.D.P.	638160



112160020000	CENTRAL ADMIN. TRAVEL, E.D.P. CENTRAL ADMIN. PRINTING, ADMISSIONS STUDENT SERVICES SALARIES, ADMISSIONS AND RECORDS CENTRAL ADMIN. OPERATING EXPENSES, PERSONNEL CENTRAL ADMIN. SUPPLIES, PERSONNEL CENTRAL ADMIN. COMMUNICATIONS, PERSONNEL FACULTY PARKING, OPERATING EXPENSE FACULTY PARKING, SALARIES PLANT OPERATIONS, EQUIPMENT, SECURITY CENTRAL ADMIN. SUPPLIES, RECEIVING CENTRAL ADMIN. OPERATING EXPENSES, RECEIVING CENTRAL ADMIN. SUPPLIES, MAILROOM CENTRAL ADMIN. SUPPLIES, SWITCHBOARD CENTRAL ADMIN. SUPPLIES, SWITCHBOARD CENTRAL ADMIN. EQUIPMENT, MAILROOM CENTRAL ADMIN. EQUIPMENT, SWITCHBOARD PLANT OPERATIONS, EQUIPMENT, SWITCHBOARD STUDENT PARKING OPERATING EXPENCE STUDENT PARKING OPERATING EXPENCE STUDENT PARKING SALARIES PLANT OPERATIONS, EQUIPMENT, MAINTENANCE OF BLDG. PLANT OPERATIONS, EQUIPMENT, MAINTENANCE OF BLDG. PLANT OPERATIONS, EQUIPMENT, BUILDING TRADE PLANT OPERATIONS, EQUIPMENT, GROUNDS PLANT OPERATIONS, EQUIPMENT, CUSTODIAL FACULTY RESIDENCE, OPERATING EXPENSE FACULTY RESIDENCE, OPERATING EXPENSE FACULTY RESIDENCE, SALARIES PUBLIC RELATIONS, SALARIES DEVONSHIRE DOWNS, MAINTENANCE DEVONSHIRE DOWNS, UTILITIES PUBLIC HOUSING AGENCY	638160
112150040000	CENTRAL ADMIN. PRINTING, ADMISSIONS	638220
141045350000	STUDENT SERVICES SALARIES, ADMISSIONS AND RECORDS	638220
112040210000	CENTRAL ADMIN. OPERATING EXPENSES, PERSONNEL	638230
112110021000	CENTRAL ADMIN. SUPPLIES, PERSONNEL	638230
112220210000	CENTRAL ADMIN. COMMUNICATIONS, PERSONNEL	638230
502010020000	FACULTY PARKING, OPERATING EXPENSE	648160
501010020000	FACULTY PARKING, SALARIES	648160
153005860000	PLANT OPERATIONS, EQUIPMENT, SECURITY	648170
112110190000	CENTRAL ADMIN. SUPPLIES, RECEIVING	648240
112030190000	CENTRAL ADMIN. OPERATING EXPENSES, RECEIVING	648240
112010200000	CENTRAL ADMIN. OPERATING EXPENSES, DUPLICATING	648250
112110180000	CENTRAL ADMIN. SUPPLIES, MAILROOM	648250
112110160000	CENTRAL ADMIN. SUPPLIES, SWITCHBOARD	648250
113030180000	CENTRAL ADMIN. EQUIPMENT, MAILROCM	648250
113040160000	CENTRAL ADMIN. EQUIPMENT, SWITCHBOARD	648250
153005840000	PLANT OPERATIONS, EQUIPMENT, VEHICLE OPERATION	648260
502110010000	STUDENT PARKING OPERATING EXPENCE	648260
501010000000	STUDENT PARKING SALARIES	648260
153005820000	PLANT OPERATIONS, EQUIPMENT, ADMINISTRATION	650000
152740000000	PLANT OPERATIONS, UTILITIES	658310
153005830000	PLANT OPERATIONS, EQUIPMENT, MAINTENANCE OF BLDG.	658320
153005832000	PLANT OPERATIONS, EQUIPMENT, BUILDING TRADE	658320
153005850000	PLANT OPERATIONS, EQUIPMENT, GROUNDS	658330
153005831000	PLANT OPERATIONS, EQUIPMENT, CUSTODIAL	658340
402010020000	FACULTY RESIDENCE, OPERATING EXPENSE	667330
401010020000	FACULTY RESIDENCE, SALARIES	667330
111050040000	PUBLIC RELATIONS, SALARIES	678180
172850210000	DEVONSHIRE DOWNS, MAINTENANCE	719701
17285011C000	DEVONSHIRE DOWNS, UTILITIES	719701
702081660000	PUBLIC HOUSING AGENCY	729800
END OF DATA		



Account Number	Description EDUCATION, LAB. SCHOOL, SALARIES CENTRAL ADMIN. SALARIES, EXECUTIVE CENTRAL ADMIN., ACAD. COMPUTER CTR., SALARIES URBAN AFFAIRS CENTER, SALARIES CENTRAL ADMIN. SALARIES, ACCCUNTING PUBLIC RELATIONS, SALARIES EDUCATION, LAB. SCHOOL, OPER. EXP CENTRAL ADMIN. OPERATING EXPENSES, DUPLICATING URBAN AFFAIR CENTER, GPER. EXP. CENTRAL ADMIN. OPERATING EXPENSES, E.D.P. CENTRAL ADMIN. OPERATING EXPENSES, PERSONNEL CENTRAL ADMIN. SUPPLIES, PERSIDENT CENTRAL ADMIN. SUPPLIES, PRESIDENT CENTRAL ADMIN. SUPPLIES, PRESIDENT CENTRAL ADMIN. SUPPLIES, ADMIN. V.P. CENTRAL ADMIN. SUPPLIES, ADMIN. V.P. CENTRAL ADMIN. SUPPLIES, ADMINGERY BOARD CENTRAL ADMIN. SUPPLIES, SWITCHBOARD CENTRAL ADMIN. SUPPLIES, SWITCHBOARD CENTRAL ADMIN. SUPPLIES, RECEIVING CENTRAL ADMIN. SUPPLIES, RECEIVING CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS CENTRAL ADMIN. TRAVEL, F.D.P. CENTRAL ADMIN. TRAVEL, F. E.D.P. CENTRAL ADMIN. TRAVEL, F. F. E.D.P. CENTRAL ADMIN. TRAVEL, LIBRARY CENTRAL ADMIN. TRAVEL, PLACEMENTS CENTRAL ADMIN. TRAVEL, LIBRARY CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. TRAVEL, PRESIDENT CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. TRAVEL, HEALTH SERVICES CENTRAL ADMIN. TRAVEL, PRESIDENT CENTRAL ADMIN. ACAD. COMPUTER CTR., SUPPLIES CENTRAL ADMIN. ACAD. COMPU	PCS No.
111001000000	EDUCATION, LAB. SCHOOL, SALARIES	450800
111010020000	CENTRAL ADMIN. SALARIES, EXECUTIVE	618110
111010320000	CENTRAL ADMIN., ACAD. COMPUTER CTR., SALARIES	440000
111010990000	URBAN AFFAIRS CENTER, SALARIES	342214
111020130000	CENTRAL ADMIN. SALARIES, ACCCUNTING	623210
111050040000	PUBLIC RELATIONS, SALARIES	678180
112001000000	EDUCATION, LAB. SCHOOL, OPER. EXP	450800
112010200000	CENTRAL ADMIN, OPERATING EXPENSES, DUPLICATING	648250
112010996060	URBAN AFFAIR CENTER, OPER. EXP.	342214
112020320000	CENTRAL ADMIN. OPERATING EXPENSES, E.D.P.	638 1 60
112030190000	CENTRAL ADMIN. OPERATING EXPENSES, RECEIVING	648240
112040210000	CENTRAL ADMIN. OPERATING EXPENSES, PERSONNEL	638230
112110020000	CENTRAL ADMIN. SUPPLIES, PRESIDENT	618110
112110021000	CENTRAL ADMIN. SUPPLIES, PERSONNEL	638230
112110030000	CENTRAL ADMIN. SUPPLIES, ADMIN. V.P.	618110
112110051000	CENTRAL ADMIN. SUPPLIES, ADVISGRY BOARD	618110
112110130000	CENTRAL ADMIN. SUPPLIES. ACCOUNTING	628210
112110160000	CENTRAL ACMIN. SUPPLIES, SWITCHBOARD	648250
112110180000	CENTRAL ADMIN. SUPPLIES, MAILROOM	648250
112110190000	CENTRAL ADMIN. SUPPLIES, RECEIVING	648240
112110220000	CENTRAL ADMIN. SUPPLIES, FINANCIAL AIDS	540000
112150040000	CENTRAL ADMIN. PRINTING, ADMISSIONS	638220
112160020000	CENTRAL ADMIN. TRAVEL, E.D.P.	638160
112160020000	CENTRAL ADMIN. TRAVEL, PRESIDENT	618110
112160840000	CENTRAL ADMIN. TRAVEL, FACULTY PRES.	618120
1121647200C0	CENTRAL ADMIN. TRAVEL, AUDIO VISUAL	430000
112165030000	CENTRAL ADMIN. TRAVEL, LIBRARY	410000
112165330000	CENTRAL ADMIN. PRAVEL, STUDENT ACTIVITIES	517110
112165360000	CENTRAL ADMIN. TRAVEL, PLACEMENTS	530000
112165720000	CENTRAL ADMIN. TRAVEL, HEALTH SERVICES	537320
112220920000	CENTRAL ADMIN. COMMUNICATIONS, PRESIDENT	618110
112220130000	CENTRAL ADMIN. COMMUNICATIONS, ACCOUNTING	628210
112220210000	CENTRAL ADMIN. COMMUNICATIONS, PERSONNEL	638630
112220320000	CENTRAL ADMIN DOCTAGE DESCIDENT	618110
112250020000	CENTRAL ADMIN EQUIDMENT DESIDENT	410110
113000020000	CENTRAL ADMIN. EQUIDMENT, ACCOUNTING	628210
113000130000	CENTRAL ADMIN. ACAD COMBITES CTD. CHODITES	440000
113000320000	CENTRAL ADMIN., ACAD. COMPUTER CIR., EQUIDMENT	440000
113000320000	CENTRAL ADMIN ACAD. COMPUTER CIR MAINTENANCE	440000
113000320003	CENTRAL ADMIN. FOLLIPMENT. FACILITY PRES.	618120
113000043000	FOUCATION. LAB. SCHOOL. FOULPMENT	450800
113001000000	CENTRAL ADMIN. EQUIPMENT, EDUCATION	110801
113001400000	CENTRAL ADMIN. EQUIPMENT, ENGINEERING	110901
113005030000	CENTRAL ADMIN. EQUIPMENT, LIBRARY	410000
	CENTRAL ADMIN. EQUIPMENT, STUDENT COUNSELING	530000
	CENTRAL ADMIN. EQUIPMENT, MAILROOM	648250
	CENTRAL ADMIN. EQUIPMENT, SWITCHBOARD	648250
	INSTRUCTION, SALARIES, ACADEMIC YEAR, ACCOUNTING	110502
	INSTRUCTION, SALARIES, ACADEMIC YEAR, ECONOMICS	110517
121011020000	INSTRUCTION, SALARIES, ACADEMIC YEAR, ELEMENTARY ED.	110802
121011030000	INSTRUCTION, SALARIES, ACADEMIC YEAR, SECONDARY ED.	110803
	AG. EXTENSION, SALARIES	350000
	INSTRUCTION, SALARIES, ACADEMIC YEAR, FINANCE	110504
	INSTRUCTION, SALARIES, ACADEMIC YEAR, BUSINESS EDUCATION	110838
	INSTRUCTION, SALARIES, ACADEMIC YEAR, PSYCH. GENERAL	112001
	INSTRUCTION, SALARIES, ACADEMIC YEAR, ANTHROPOLOGY	112202
	INSTRUCTION, SALARIES, ACADEMIC YEAR, GEOGRAPHY	112206



	121040940000	INSTRUCTION, SALARIES, ACADEMIC YEAR, MARKETING	110509
T	121040960000	INSTRUCTION. SALARIES. ACADEMIC YEAR. MANAGEMENT	110506
4	121041230000	INSTRUCTION. SALARIES. ACADEMIC YEAR. HISTORY	112205
_	121051900000	INSTRUCTION, SID. ASSI., ACADEMIC YR., EDUCATION	110801
	121052000000	INSTRUCTION, SALARIES, ACADEMIC YEAR, MARKETING INSTRUCTION, SALARIES, ACADEMIC YEAR, MANAGEMENT INSTRUCTION, SALARIES, ACADEMIC YEAR, HISTORY INSTRUCTION, STD. ASST., ACADEMIC YR., EDUCATION INSTRUCTION, STD. ASST., ACADEMIC YR., GENERAL ENGINEERING	110001
	121052110000	INSTRUCTION STD ASST - ACADEMIC VP - ANTHOROGOUGE	110701
	121052170000	INSTRUCTION STD ASST ACADEMIC VD SCCORDOV	112202
	121052170000	INSTRUCTION STO ASSISS ACADEMIC TREE SECTIONS	112200
	121052180000	INSTRUCTION SIDE ASSIEV ACADEMIC TREE ENGLISH	111501
	121092100090	INSTRUCTION SALARIES; SPECIAL PROGRAPS; ENGLISH	141501
	121002210000	INSTRUCTION, TEMP HELP, ACADEMIC TR. BIULUGY	110401
	121062220000	INSTRUCTION, TEMP HELP, ACCIDENTLY R. PHYSICS	111902
	121002230000	INSTRUCTION, TEMP HELP, ACADEMIC YR. MATHEMATICS	111701
	121062240000	INSTRUCTION, TEMP HELP, ACADEMIC YR. CHEMISTRY	111905
	121062250000	INSTRUCTION, TEMP HELP, ACADEMIC YR. GEOLOGY	111914
	121822015200	EDUCATION, ENGINEERING COMP. CTR., SALARIES	440900
	122010531810	INSTRUCTION, OPERATING EXP. E.D.P., ACCOUNTING	100502
	122010531820	INSTRUCTION, OPERATING EXP. E.D.P., ECONOMICS	100517
	122010531830	INSTRUCTION, OPERATING EXP. E.D.P., FINANCE	100504
	122010531840	INSTRUCTION, OPERATING EXP. E.D.P., MARKETING	100509
	122010531860	INSTRUCTION, OPERATING EXP. E.D.P., MANAGEMENT	100 506
	122010531900	INSTRUCTION, OPFRATING EXP. E.D.P., GENERAL EDUCATION	100801
	122010532000	INSTRUCTION, STD. ASST., ACADEMIC YR., GENERAL ENGINEERING INSTRUCTION, STD. ASST., ACADEMIC YR., ANTHROPOLOGY INSTRUCTION, STD. ASST., ACADEMIC YR., SCCIOLOGY INSTRUCTION, STD. ASST., ACADEMIC YR., ENGLISH INSTRUCTION SALARIES, SPECIAL PROGRAMS, ENGLISH INSTRUCTION, TEMP HELP, ACADEMIC YR. BIOLOGY INSTRUCTION, TEMP HELP, ACADEMIC YR. PHYSICS INSTRUCTION, TEMP HELP, ACADEMIC YR. MATHEMATICS INSTRUCTION, TEMP HELP, ACADEMIC YR. CHEMISTRY INSTRUCTION, TEMP HELP, ACADEMIC YR. GEOLOGY EDUCATION, ENGINEERING COMP. CTR., SALARIES INSTRUCTION, OPERATING EXP. E.D.P., ACCOUNTING INSTRUCTION, OPERATING EXP. E.D.P., FINANCE INSTRUCTION, OPERATING EXP. E.D.P., FINANCE INSTRUCTION, OPERATING EXP. E.D.P., MARKETING INSTRUCTION, OPERATING EXP. E.D.P., MARKETING INSTRUCTION, OPERATING EXP. E.D.P., GENERAL EDUCATION INSTRUCTION, OPERATING EXP. E.D.P., GENERAL EDUCATION INSTRUCTION, OPERATING EXP. E.D.P., GENERAL ENGINEERING	100901
	122010532150	INSTRUCTION, OPERATING EXP. E.D.P., GENERAL EDUCATION INSTRUCTION, OPERATING EXP. E.D.P., GENERAL ENGINEERING INSTRUCTION, OPERATING EXP. E.D.P., POLITICAL SCIENCE INSTRUCTION, OPERATING EXP. E.D.P., PSYCHOLOGY INSTRUCTION, OPERATING EXP. E.D.P., BIOLOGY INSTRUCTION, OPERATING EXP. E.D.P., PHYSICS INSTRUCTION, OPERATING EXP. E.D.P., MATHEMATICS INSTRUCTION, OPERATING EXP. E.D.P., CHEMISTRY INSTRUCTION, OPERATING EXP. E.D.P., GEOLOGY AG. EXTENSION, OP. EXP. INSTRUCTION, SPECIAL PROGRAMS, OPER. EXP., ENGLISH AG. EXTENSION RURAL DEV. CTR. OP. EXP. SPECIAL TUTORIAL EXPENSE SPECIAL LECTURES EXPENSE	102207
	122010532160	INSTRUCTION, OPERATING EXP. E.D.P., PSYCHOLOGY	102001
	122010532210	INSTRUCTION, OPERATING EXP. E.D.P., BIOLOGY	100401
	122010532220	INSTRUCTION, OPERATING EXP. E.D.P., PHYSICS	101902
	122010532230	INSTRUCTION, OPERATING EXP. E.D.P., MATHEMATICS	101701
	122010532240	INSTRUCTION, OPERATING EXP. E.D.P, CHEMISTRY	101905
	122010532250	INSTRUCTION, OPERATING EXP. E.D.P., GEOLOGY	101914
402	122019880000	AG. EXTENSION, OP. EXP.	350000
4. »	122052180000	INSTRUCTION, SPECIAL PROGRAMS, OPER. EXP., ENGLISH	141501
	122098900000	AG. EXTENSION RURAL DEV. CTR. OP. EXP.	356700
	122430000000	SPECIAL TUTORIAL EXPENSE	520000
	122431000000	SPECIAL LECTURES EXPENSE	517120
	122444740000	EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE	430000
	122444750000	EDUCATION, AUDIO VISUAL CENTER RENTALS	430000
	122444760000	EDUCATION, AUDIO VISUAL CENTER INSTRUCTIONAL AIDS	430000
	122447100000	EDUCATION AUDIO VISUAL CENTER EQUIPMENT	430000
	122447300000	EDUCATION AUDIO VISUAL CENTER SALARIES	430000
	122822015200	EDUCATION, AUDIO VISUAL CENTER, MAINTENANCE EDUCATION, AUDIO VISUAL CENTER RENTALS EDUCATION, AUDIO VISUAL CENTER INSTRUCTIONAL AIDS EDUCATION AUDIO VISUAL CENTER EQUIPMENT EDUCATION AUDIO VISUAL CENTER SALARIES EDUCATION, ENGINEERING COMP. CTR., OPER. EXP INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PSYCHOLOGY INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGLISH INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGLISH	440900
	123011250000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, POL. SCIENCE	112207
	123011260000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PSYCHOLOGY	112001
	1230112800C0	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGLISH	111501
	123011230000	INSTRUCTION EQUIPMENT ACADEMIC TEAR SPEECH	111700
	123011300000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, FOR. LANG.	111101
		INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, ENGINEERING	110901
		SPECIAL VISITING LECTURER EXPENSE, ART	111002
		SPECIAL VISITING LECTURER EXPENSE, DRAMA	111007
		SPECIAL VISITING LECTURER EXPENSE, HEALTH SCIENCE	111201
		SPECIAL VISITING LECTURER EXPENSE, HOME ECON.	111301
	123011550000	SPECIAL VISITING LECTURER EXPENSE, MUSIC	111004
		SPECIAL VISITING LECTURER EXPENSE P.E	110835
		SPECIAL VISITING LECTURER EXPENSE, JOURNALISM	110602
		INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, PHILOSOPHY	111509
		INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, AFRO STUDIES	110305
雪~	123031270000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, SOCIOLOGY	112208
- (* 1			



123031370000	INSTRUCTION, FOULPMENT, ACADEMIC YEAR, MET, AMER, STUDIES	112213
123031310030	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, MET. AMER. STUDIES INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, RELIGIOUS STUDIES	111510
123041360000	INSTRUCTION, EQUIPMENT, ACADEMIC TEAR, RELIGIOUS STUDIES	111310
123822015200	EDUCATION, ENGINEERING COMP. CIR., EQUIPMENT	440900
131010504000	LIBRARY, PROCESSING SERVICES	410000
131015030000	LIBRARY, ADMINISTRATION	410000
131015050000	LIBRARY, PUBLIC SERVICES	410000
132101000000	ART GALLERY OPERATING EXPENSE	420000
132600000000	LIBRARY, BOOKS	410000
132610000000	LIBRARY, DEDICALS	410000
132010000000	LIDRADY FORIUDICALS	410000
133000000000	LIDRACT, EQUIPMENT	410000
141005050000	ART GALLERY, SALAKIES	420000
141025330000	STUDENT SERVICES SALAPTES, STUDENT ACTIVITIES	517110
141025720000	STUDENT SERVICES SALARIES, HEALTH SERVICES	557320
141035360000	STUDENT SERVICES SALARIES, PLACEMENTS	530000
141035370000	STUDENT SERVICES SALARIES, FOREIGN STUDENTS PROGRAM	557420
141045340000	STUDEN' SERVICES SALARIES, COUNSELING AND TESTING	530000
141045350000	STUDENT SERVICES SALARIES, ADMISSIONS AND RECORDS	638220
142345721000	STUDENT SERVICES. HEALTH SERVICES. SUPPLIES	557320
142345722000	STIDENT SERVICES, HEALTH SERVICES, DRIES	557320
142345725000	INSTRUCTION, EQUIPMENT, ACADEMIC YEAR, RELIGIOUS STUDIES EDUCATION, ENGINEERING COMP. CTR., EQUIPMENT LIBRARY, PROCESSING SERVICES LIBRARY, ADMINISTRATION LIBRARY, PUBLIC SERVICES ART GALLERY OPERATING EXPENSE LIBRARY, BOOKS LIBRARY, PERIODICALS LIBRARY, PERIODICALS LIBRARY, EQUIPMENT ART GALLERY, SALARIES STUDENT SERVICES SALARIES, STUDENT ACTIVITIES STUDENT SERVICES SALARIES, HEALTH SERVICES STUDENT SERVICES SALARIES, PLACEMENTS STUDENT SERVICES SALARIES, FOREIGN STUDENTS PROGRAM STUDENT SERVICES SALARIES, COUNSELING AND TESTING STUDENT SERVICES SALARIES, ADMISSIONS AND RECORDS STUDENT SERVICES, HEALTH SERVICES, SUPPLIES STUDENT SERVICES, HEALTH SERVICES, DRUGS STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING	557320
142345725000	STUDENT SERVICES, HEALTH SERVICES, A-RAYS STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING	557320
142345728000	STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING	55/320
143000000000	ARI GALLERY, ACQUISITIONS	420000
143005050000	ART GALLERY, EQUIPMENT	420000
152740000000	PLANT OPERATIONS, UTILITIES	658310
153005820000	PLANT OPERATIONS, EQUIPMENT, ADMINISTRATION	650000
153005830000	PLANT OPERATIONS, EQUIPMENT, MAINTENANCE OF BLOG.	658320
153005831000	PLANT OPERATIONS, EQUIPMENT, CUSTODIAL	658340
153005832000	PLANT OPERATIONS, EQUIPMENT, BUILDING TRADE	658320
153005840000	PLANT OPERATIONS, EQUIPMENT, VEHICLE OPERATION	648260
153005010000	DIANT OBERATIONS. FOUR PMENT, COUNTS	658330
153005040000	PLANT OPERATIONS COULDMENT SCOUDITY	6/9170
141020140000	CTUDENT CHANGIAL AIRS SALADISS	540170
161620140090	STUDENT FINANCIAL AIDS, SALARIES	540000
161820150000	STUDENT FINANCIAL AIDS, PURCHASING	540000
161820160000	STUDENT FINANCIAL AIDS, SWITCHBUARD	540000
161820170000	STUDENT SERVICES, HEALTH SERVICES, PSYCHIATRIC COUNSELING ART GALLERY, ACQUISITIONS ART GALLERY, EQUIPMENT PLANT OPERATIONS, UTILITIES PLANT OPERATIONS, EQUIPMENT, ADMINISTRATION PLANT OPERATIONS, EQUIPMENT, MAINTENANCE OF BLOG. PLANT OPERATIONS, EQUIPMENT, CUSTODIAL PLANT OPERATIONS, EQUIPMENT, BUILDING TRADE PLANT OPERATIONS, EQUIPMENT, WEHICLE OPERATION PLANT OPERATIONS, EQUIPMENT, GROUNDS PLANT OPERATIONS, EQUIPMENT, SECURITY STUDENT FINANCIAL AIDS, SALARIES STUDENT FINANCIAL AIDS, SALARIES STUDENT FINANCIAL AIDS, PURCHASING STUDENT FINANCIAL AIDS, PROPERTY DEPARTMENTAL LIBRARY EXPENSES, BUSINESS DEPARTMENTAL LIBRARY EXPENSE, FCONOMICS DEPARTMENTAL LIBRARY EXPENSE PSYCHOLOGY DEPARTMENTAL LIBRARY EXPENSE PSYCHOLOGY DEPARTMENTAL LIBRARY EXPENSE PHYSICS DEPARTMENTAL LIBRARY EXPENSE PHYSICS DEPARTMENTAL LIBRARY EXPENSE PHYSICS DEPARTMENTAL LIBRARY EXPENSE CHEMISTRY RESEARCH SALARIES INSTITUTION GRANT NO. 257 SMITH RESEARCH SALARIES INSTITUTION GRANT NO. 268 MARKS RESEARCH SALARIES INSTITUTION GRANT NO. 268 MARKS	540000
161821810000	DEPARTMENTAL LIBRARY EXPENSES, BUSINESS	410500
161821820000	DEPARTMENTAL LIBRARY EXPENSES, FOONOMICS	410517
161822000000	DEPARIMENTAL LIBRARY EXPENSE ENGINEERING	410900
161822180000	DEPARTMENTAL LIBRARY EXPENSE PSYCHOLOGY	412000
161822220000	DEPARTMENTAL LIBRARY EXPENSE PHYSICS	411902
161822230000	DEPARTMENTAL LIBRARY EXPENSE MATHEMATICS	411700
161822240000	DEPARTMENTAL LIBRARY EXPENSE CHEMISTRY	411905
161829020600	RESEARCH SALARIES INSTITUTION GRANT NO. 257 SMITH	220502
161829020700	PESEADCH SALARIES INSTITUTION GRANT NO. 258 JONES	220001
141920020100	RESEARCH SALARIES INSTITUTION GRANT NO. 268 COOPER	221501
141029020000	RESEARCH SALARIES INSTITUTION GRANT NO. 200 CUDER	221301
10102 3020 300	PESENTON SAERTES INSTITUTION SHANT NOT EST MARKS	221707
	INSTRUCTION SALARIES, SUMMER SESSION, ACCOUNTING	120502
	INSTRUCTION SALARIES, SUMMER SESSION, ECONOMICS	120517
	INSTRUCTION SALARIES, SUMMER SESSION, FINANCE	120504
171057420940	INSTRUCTION SALARIES, SUMMER SESSION, MARKETING	120509
171057421000	INSTRUCTION SALARIES, SUMMER SESSION, GENERAL ED.	120801
	INSTRUCTION SALARIES, SUMMER SESSION, PSYCHOLOGY	122001
	INSTRUCTION SALARIES, SUMMER SESSION, SOCIOLOGY	122208
	INSTRUCTION SALARIES, SUMMER SESSION, ENGLISH	121501
	INSTRUCTION SALARIES, SUMMER SESSION, ENGLISH	121902
	INSTRUCTION SALARIES, SUMMER SESSION, PHYSICS INSTRUCTION SALARIES, SUMMER SESSION, CHEMISTRY	121902
	INSTRUCTION SALARIES, SUMMER SESSION, ENGINEERING	120901
1/5820110000	DEVONSHIRE DOWNS, UTILITIES	719701

	172850210000	DEVONSHIRE DOWNS, MAINTENANCE CONTINUING EDUCATION SALARIES, ACCOUNTING CONTINUING EDUCATION SALARIES, ECONOMICS CONTINUING EDUCATION SALARIES, ECONOMICS CONTINUING EDUCATION SALARIES, PSYCHOLOGY CONTINUING EDUCATION SALARIES, PSYCHOLOGY CONTINUING EDUCATION SALARIES, ENGLISH CONTINUING EDUCATION SALARIES, ENGLISH CONTINUING EDUCATION SLALRIES, ENGLISH EXTENSION EQUIPMENT, FOREIGN LANGUAGE EXTENSION EQUIPMENT, FOREIGN LANGUAGE EXTENSION EQUIPMENT, ENGINEERING ENGINEERING RESEARCH CENTER GRANT EDUCATIONAL MATERIALS RESEARCH INSTITUTE STUDENT HOUSING SALARIES STUDENT HOUSING SALARIES STUDENT HOUSING OPERATING EXPENSE STUDENT HOUSING OPERATING EXPENSE STUDENT PARKING, SALARIES FACULTY PARKING, SALARIES FACULTY PARKING, OPERATING EXPENSE STUDENT PARKING OPERATING EXPENSE STUDENT PARKING OPERATING EXPENSE STUDENT PARKING OPERATING EXPENSE STOREFRONT COLLEGE, SALARIES STOREFRONT COLLEGE, SALARIES STOREFRONT COLLEGE, POER. EXP. STOREFRONT COLLEGE, EQUIPMENT EXTENSION PUBLIC LECTURES, HONORARIUMS INSTRUCTION, EXTENSION EVENING DEGREE PROG., SALARIES, ED.	719701
i.	181010910000	CONTINUING EDUCATION SALARIES, ACCOUNTING	310502
	181010920000	CONTINUING EDUCATION SALARIES, ECONOMICS	310517
	181010920000	CONTINUING EDUCATION SALARIES, ECONOMICS	310517
	181021010000	CONTINUING EDUCATION SALARIES, PSYCHOLOGY	312001
	181021010000	CONTINUING EDUCATION SALARIES, PSYCHOLOGY	312001
	181041290000	CONTINUING EDUCATION SALARIES, ENGLISH	311501
	181041290000	CONTINUING EDUCATION SLALRIES, ENGLISH	311501
	183001300000	EXTENSION EQUIPMENT, FOREIGN LANGUAGE	321101
	183001400000	EXTENSION EQUIPMENT, ENGINEERING	320901
	195042000000	ENGINEERING RESEARCH CENTER GRANT	210900
	195043000000	EDUCATIONAL MATERIALS RESEARCH INSTITUTE	210800
	195043000000	EDUCATIONAL MATERIALS RESEARCH INSTITUTE	210800
	401010000000	STUDENT HOUSING SALARIES	557330
	401010020000	FACULTY RESIDENCE, SALARIES	667330
	402010000000	STUDENT HOUSING OPERATING EXPENSE	557330
	402010020000	FACULTY RESIDENCE, OPERATING EXPENSE	667330
	501010000000	STUDENT PARKING SALARIES	648260
	501010020000	FACULTY PARKING, SALARIES	648160
	502010020000	FACULTY PARKING, OPERATING EXPENSE	648160
	502110010000	STUDENT PARKING OPERATING EXPENCE	648260
	601010020000	STOREFRONT COLLEGE, SALARIES	340000
	602010020000	STOREFRONT COLLEGE, OPER, EXP.	340000
	603010020000	STOREFRONT COLLEGE, EQUIPMENT	340000
	701071000000	EXTENSION PUBLIC LECTURES, HONORARIUMS	330000
	701071000000	INSTRUCTION, EXTENSION EVENING DEGREE PROG., SALARIES, ED.	130801
	702071000000	EXTENSION PUBLIC LECTURES, OPER. EXP.	330000
		INSTRUCTION, EXJ. EVE, DEGREE PROG., OPER. EXP., MATH	
	702071340000	INSTRUCTION, EXT. EVE. DEGREE PROG., OPER. EXP., CHEMISTRY	131905
		INSTRUCTION, EXT. EVE. DEGREE PROG., OPER. EXP., GEOLOGY	
		PUBLIC HOUSING AGENCY	729800
	END DE DATA		

ERIC Full text Provided by ERIC

REFERENCES

- 1. Charles B. Johnson and William G. Katsenmeyer, eds., <u>Management Information Systems in Higher Education: The State of the Art (Durham, North Carolina: Duke University Press, 1969). And Robert A. Huff, ed., <u>Focus on MIS</u> (Boulder, Colorado: Western Interstate Commission for Higher Education, October 1969).</u>
- 2. James Farmer, Why Planning, Programming, Budgeting Systems for Higher Education (Boulder, Colorado: Western Interstate Commission for Higher Education, 1970).
- 3. Ralph E. Tyler, "The Changing Structure of American Institutions of Higher Education," in <u>The Economics and Financing of Higher Education in the United States</u>, A compendium of papers submitted to the Joint Economic Committee, Congress of the United States, (Washington, D. C.: USGPO).
- 4. Charles B. Johnson and William G. Katsenmeyer, eds., <u>Management Information Systems in Higher Education: The State of the Art</u> (Durham, North Carolina: Duke University Press, 1969).
- 5. Edwin W. Beach, "California's Programming and Budgeting System", in <u>Innovations in Planning</u>, <u>Programming</u>, <u>and Budgeting in State</u> and <u>Local Governments</u>, A compendium of papers submitted to the <u>Sub-Committee</u> on Economy in Government of Joint Economic Committee. Congress of the United States (Washington, D. C.: USGPO, 1969).
- 6. Werner Z. Hirsh, "Education in the Program Budget," in David Novick, <u>Program Budgeting</u>, <u>Program Analysis</u>, and the Federal Budget (Cambridge, Massachusetts: Harvard University Press, 1969).
- 7. Farmer, Why Planning.
- 8. Harry Williams, <u>Planning for Effective Resource Allocation in Universities</u> (Washington, D. C.: American Council on Education, 1966).
- 9. Peter Szanton, "The Present and Future of PPBS, Status and Plan," in Robert L. Chartrand, Kenneth Janda, and Michael Hugo, eds., Information Support, Program Budgeting, and the Congress (New York: Srartan Books, 1968).
- 10. Harry J. Hartley, <u>Educational Planning Programming Budgeting:</u>
 <u>A Systems Approach</u> (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1968).
- 11. Williams, Planning for Effective.
- 12. A. R. Prest, and R. Turvey, "Cost Benefit Analysis: A Survey," The Economic Journal 75 (December 1965).



- 13. John E. Keller, "The Uses of Models in University Decision-Making," Unpublished monograph (The University of California, Office of the Vice President/Planning and Analysis, November 1967).
- 14. Robert Campbell, "Approaches to the Analysis of the Demand for Higher Education: A Tool for Educational Planning," in Richard H.P. Kraft, <u>Strategies of Educational Planning</u> (Florida State University, 1969).
 - M.B. Carpenter and M.L. Rapp, "The Analysis of Effectiveness," in S.A. Haggart, et. al., <u>Program Budgeting for School District Planning: Concepts and Applications</u> (The Rand Corporation, November 1969).
 - Joseph Froomkin, "Cost/Effectiveness and Cost/Benefit Analysis of Educational Programs," in <u>Socio-Economic Planning Sciences</u> (Pergamon Press, Vol. 2, Nos. <u>2/3/4</u>, April 1969).
 - Paul W. Hamelman, "Cost/Effectiveness Analysis for University Planning," (A paper prepared for the 31st National Meeting of the Operations Research Society of America, New York: June 1969).
 - Robert Pavese, "Program Budgeting in Higher Education," in Harry J. Hartley, Educational Planning-Programming-Budgeting (Prentice-Hall, Inc., 1968).
- 15. Charles J. Hitch, "What are the Programs and Program Planning in Budgeting," Sumner N. LaVine, ed., Socio-Economic Planning Sciences Vol. 1, Nos. 2,3,4 (Oxford, England: Pergamon Press, April 1969).
- 16. The Economics and Financing of Higher Education in the United States, A compendium of papers submitted to the Joint Economic Committee, Congress of the United States (Washington, D.C.,: USGPO).
- 17. Frederick S. Hillier and Gerald J. Libermann, <u>Introduction to Operations Research</u> (San Francisco: Holden, Day Inc., 1968) p. 15.
- 18. Keller, The Uses of Models.
- 19. George Weathersby, "Development and Applications of a Universtiy Cost Simulation Model," An unpublished monograph (University of California, Berkeley: Office of Analytical Studies, June 15, 1967).
- 20. E.L. Phillips, Jr., <u>New Approach to Academic Administration</u> (Columbia University, New York: Teacher's College Press, 1969).



- 21. Management Information Systems Program, Objectives and Guidelines of the WICHE Management Information Systems Program (Boulder, Colorado: Western Interstate Commission for Higher Education, 1969).
- 22. Ben Lawrence, <u>Compatible Management Information Systems</u>, Technical Report #1 (Boulder, Colorado: Western Interstate Commission for Higher Education, May 1969).
- 23. A.E. Joyal, <u>The Costs of Higher Education in 1960-1975</u> (Sacramento, California: Committee on the Regents of the University of California and the State Board of Education, 1960).
- 24. Irene H. Butter, <u>Economics of Graduate Education</u>: <u>An Exploratory</u> Study (Washington, D.C.: United States Office of Education, 1966).
- 25. William G. Bowen, "Economic Pressures on the Major Private Universities," in <u>The Economics and Financing of Higher Education in the United States</u>, A compendium of papers submitted to the Joint Economic Committee (Washington, D.C.: Congress of the United States, USGPO, 1969).
- 26. Management Information Systems Program, Phase II: Objectives and Time Schedule of the WICHE Management Information Systems Program (Boulder, Colorado: Western Interstate Commission for Higher Education, May 1969).
- 27. Charles R. Thomas, <u>Data Element Dictionary: Course</u>, 1st ed. (Boulder, Colorado: Western Interstate Commission for Higher Education, February 1970).
- 28. Charles R. Thomas, <u>Data Element Dictionary: Students</u>, 1st ed. (Boulder, Colorado: Western Interstate Commission for Higher Education, February 1970).
- 29. Richard W. Judy, "Systems Analysis for Efficient Resource Allocation in Higher Education," in Minter and Lawrence, eds., Management Information Systems: Their Development and Use in the Administration of Higher Education (Boulder, Colorado: Western Interstate Commission for Higher Education, October 1969).
- 30. H.E. Koenig, M.G. Keeney, and R. Zemach, <u>Systems Analysis and Planning in University Administration</u> (East Lansing: Michigan State University, Division of Engineering Research, 1967).
- 31. Melvin Ashen, "The Program Budget in Operation," in David Novick, ed., <u>Program Budgeting</u> (Cambridge, Massachusetts: Harvard University Press, 1965).



- 32. John E. Keller, "Higher Education Objectives: Measures of Performance and Effectiveness," in John Minter and Ben Lawrence, eds., Management Information Systems: Their Development and Use in the Administration of Higher Education (Boulder, Colorado: Western Interstate Commission for Higher Education, October 1969).
- 33. Hartley, Educational Planning.
- 34. S. M. Barro, "Development of Program Structure," in Haggart, et. al., <u>Program Budgeting for School District Planning: Concepts and Applications</u> (Santa Monica, California: The Rand Corporation, November 1969).
- 35. <u>Bureau of the Budget</u>, Bulletin No. 68-9 (Washington, D. C.: USGPO, April 1968).
- 36. Robert A. Huff and James Farmer, "Faculty Activities Contributing to the Instructional Function of Higher Education" An unpublished report to the WICHE MIS Steering Committee (January 12, 1970).
- 37. U. S. Department of Agriculture, Federal Extension Service, EMIS Data Definition Document, Fiscal Year 1971, July 1, 1970 June 30, 1971 (Washington, D. C.: USGPO, 1969).
- 38. Ibid. Section 4.
- 39. <u>I</u>bid.
- 40. Ibid.
- 41. Ibid.
- 42. <u>Ibid</u>.
- 43. Francis F. Martin, <u>Computer Modeling and Simulation</u> (New York: John Wiley & Sons, 1968).
- 44. <u>Glossary for Systems Analysis and Planning Programming Budgeting</u>, (Washington, D. C.: United States General Accounting Office, October 1969).

65:6M:770:GD:JoP:2BA8